=> d his

(FILE 'HOME' ENTERED AT 12:55:45 ON 30 OCT 2004)

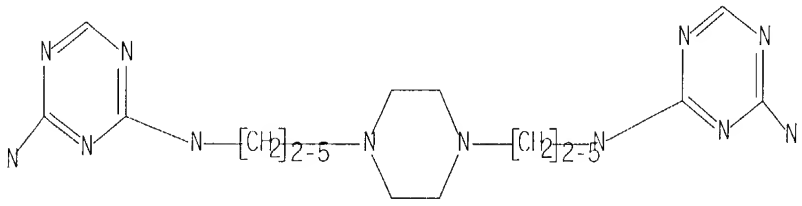
FILE 'REGISTRY' ENTERED AT 12:55:59 ON 30 OCT 2004
L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 15 S L1 OR L2

FILE 'CAPLUS' ENTERED AT 12:58:07 ON 30 OCT 2004

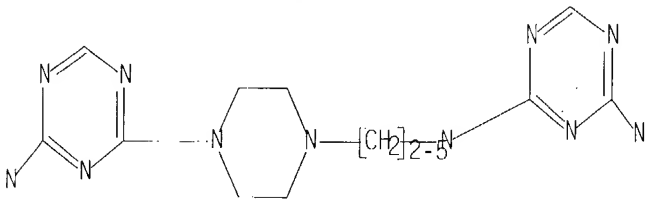
FILE 'REGISTRY' ENTERED AT 12:59:46 ON 30 OCT 2004
L4 212 S L3 FULL

FILE 'CAPLUS' ENTERED AT 13:00:11 ON 30 OCT 2004
L5 40 S L4

=> d que l5 stat
L1 STR



Structure attributes must be viewed using STN Express query preparation.
L2 STR



Structure attributes must be viewed using STN Express query preparation.
L4 212 SEA FILE=REGISTRY SSS FUL L1 OR L2
L5 40 SEA FILE=CAPLUS ABB=ON PLU=ON L4

=> d 1-40 bib abs hitstr

L5 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:413024 CAPLUS
DN 140:408229
TI Mixtures of reactive azo dyes, their production and their use in dyeing of material containing hydroxy- and/or carboxamido groups
IN Ebenezer, Warren James; Russ, Werner
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 76 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

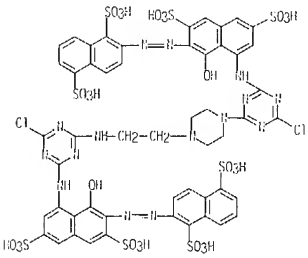
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001041941	A1	20010521	WO 2000-EP12271	20001101
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PH, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 2002-26151	A	20021108		

OS MARPAT 140:408229
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disclosed are reactive azo dye mixts. comprising one or more of I (Ar1= sulfoaryl; M = H, alkali metal; X1 = labile atom or group) and one or more of II (Ar2 = sulfoaryl; M = H, alkali metal; L = mono- or divalent radical; X2 = labile atom or group; a = 1 or 2). The mixts. provide strong and economic shades on fibrous materials. In an example, 2-aminoethylpiperazine and ethylenediamine were condensed with a dichlorotriazinyl dye to give a red 1:1 mixture of dyes of type I and type II.
IT 220211-72-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(red dye; production of reactive azo dye mixts. containing)
RN 220211-72-3 CAPLUS

L5 ANSWER 1 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
CN 1,5-Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[4-[2-[[4-chloro-6-[[7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

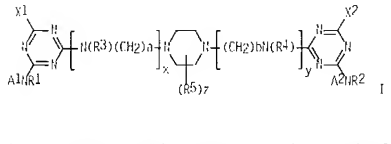


RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:36726 CAPLUS
DN 140:95572
TI Reactive azo dyes, their production and their use
IN Ebenezer, Warren James; Russ, Werner
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1380621	A1	20040114	EP 2003-15256	20030707
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004107517	A1	20040610	US 2003-611438	20030701
	ZA 2003005261	A	20040210	ZA 2003-5261	20030708
	BR 2003002363	A	20040824	BR 2003-2363	20030708
	JP 2004043809	A2	20040212	JP 2003-195297	20030710
	CN 1477159	A	20040225	CN 2003-146641	20030710
PRAI	GB 2002-15982	A	20020710		

OS MARPAT 140:95572
GI



AB The invention discloses reactive azo dyes (I; A1, A2 = arom. sulfo-containing azo moiety; R1, R2, R3, R4, R5 = H, optionally substituted alkyl; X1, X2 fiber-reactive atom or group; x, y = 0, 1 whereby at least one of x and y is 1; a, b = 2-5 and when each of x and y is 1, a > b; z = 0, 1, 2, 3, 4), processes for their preparation, and their use for dyeing and printing hydroxy- and/or carboxamido-containing fiber materials. I provide strong, bright, and economic shades on textiles. In an example, 1-(2-aminoethyl)piperazine was treated in succession with 2 different monoazo dyes each containing a dichlorotriazine group to give a disazo bis(chlorotriazine) reactive dye (λmax 491 nm).
IT 644987-54-2P 644987-55-3P 644987-56-4P
644987-57-5P 644987-58-6P 644987-59-7P
644987-60-0P 644987-61-1P 644987-62-2P
644987-63-3P 644987-64-4P 644987-65-5P
644987-66-6P 644987-67-7P 644987-68-8P

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
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644987-72-4P 644987-73-5P 644987-74-6P
644987-75-7P 644987-76-8P 644987-77-9P
644987-78-0P 644987-79-1P 644987-80-4P
644987-81-5P 644987-82-6P 644987-83-7P
644987-84-8P 644987-85-9P 644987-86-0P
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644987-96-2P 644987-97-3P 644987-98-4P
644987-99-5P 644988-00-1P 644988-01-2P
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644988-20-5P 644988-22-7P 644988-24-9P
644988-26-1P 644988-28-3P 644988-30-7P
644988-32-9P 644988-34-1P 644988-36-3P
644988-38-5P 644988-40-9P 644988-42-1P
644988-44-3P 644988-46-5P 644988-48-7P
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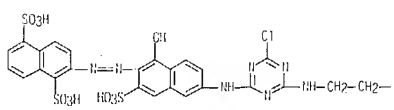
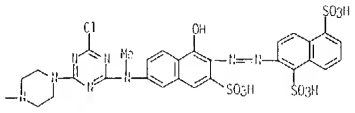
644988-61-4P 645405-61-4P 645405-62-5P
645405-63-6P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; prodn. of chlorotriazine reactive dyes contg. piperazine groups)
RN 644987-54-2 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-chloro-6-[4-[2-[[4-chloro-5-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]ethylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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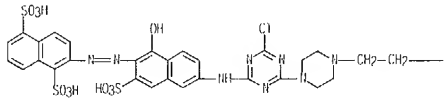
PAGE 1-A



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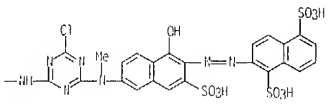

RN 644987-56-4 CAPLUS
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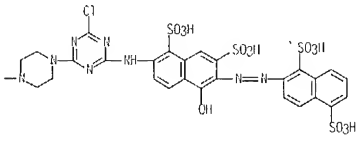
L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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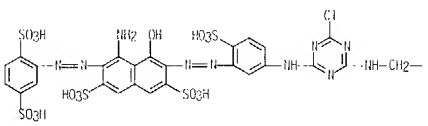
PAGE 1-A



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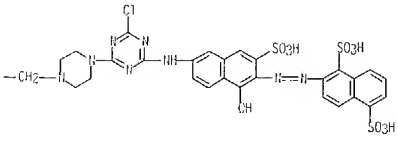

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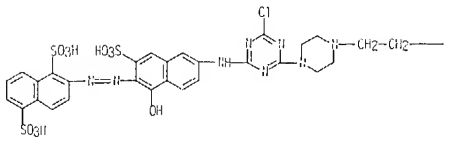
L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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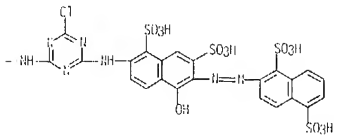

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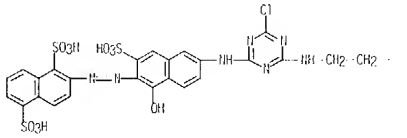
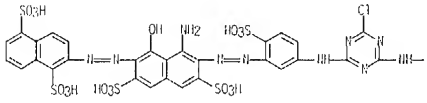
PAGE 1-A



L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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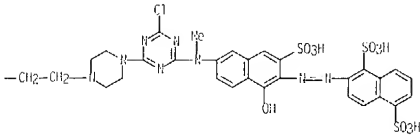

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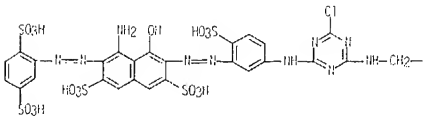
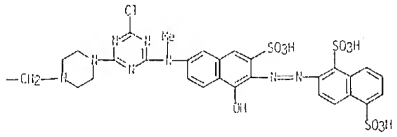
PAGE 1-A



L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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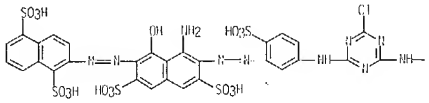
PAGE 1-A



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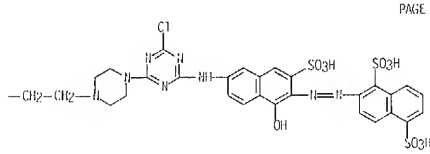

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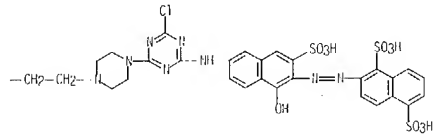
L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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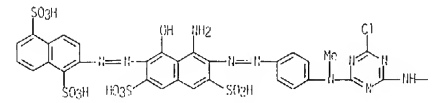
PAGE 1 A



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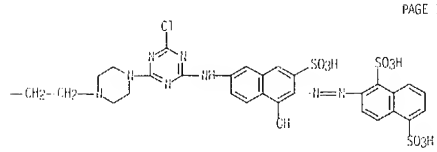

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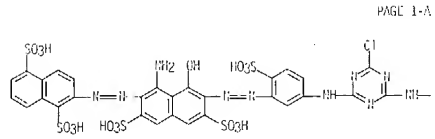
L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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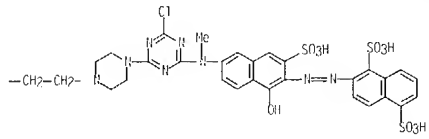

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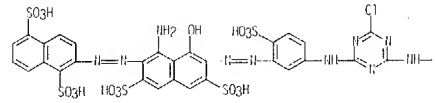

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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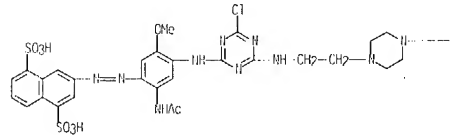

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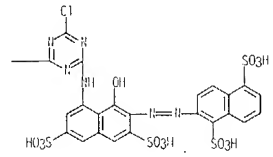

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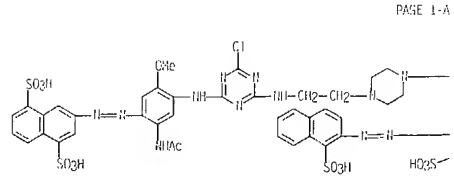

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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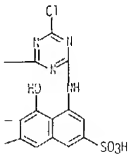

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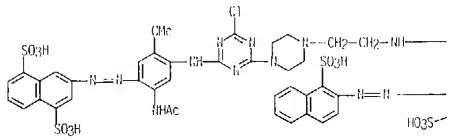

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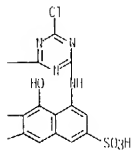

RN 644987-69-8 CAPLUS

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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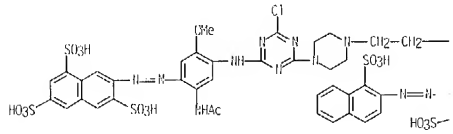

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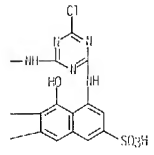

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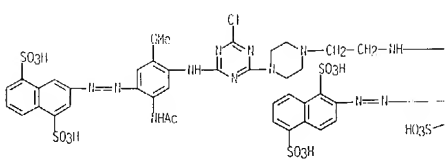

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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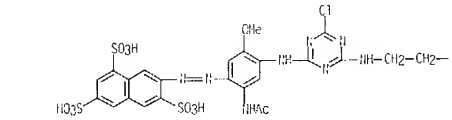

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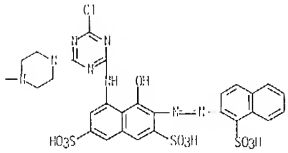

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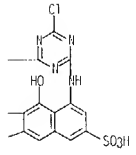

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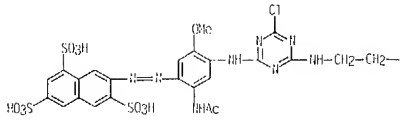

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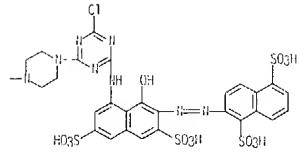

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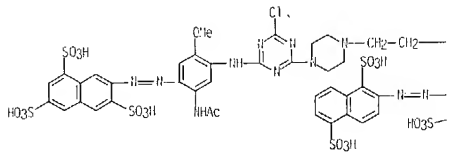

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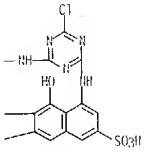

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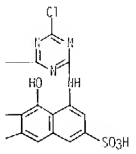

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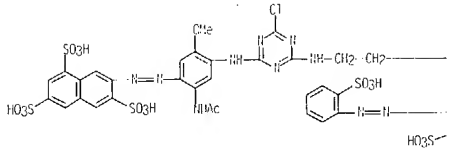

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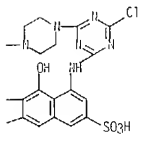

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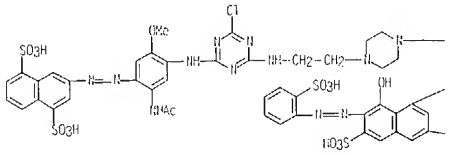

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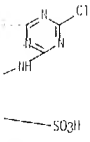

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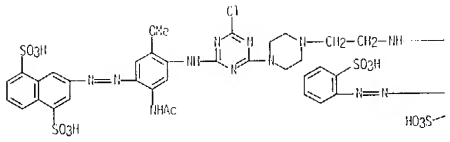

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
[2 [[4-chloro-6-[[8-hydroxy-3.6-disulfo-7-[(2-sulfophenyl)azo]-1-naphthalenyl]amino]-1.3.5-triazin-2-yl]amino]ethyl]-1-piperazinyl] 1.3.5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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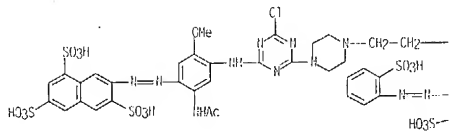

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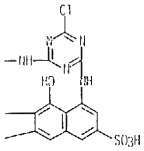

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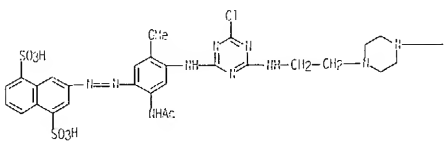

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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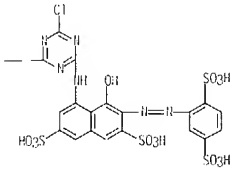

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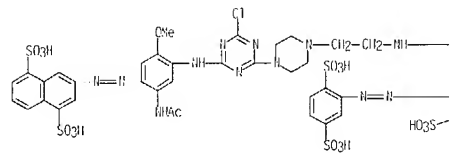

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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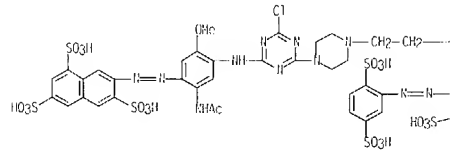

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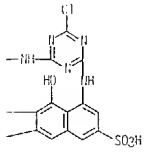

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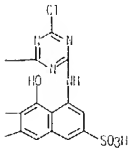

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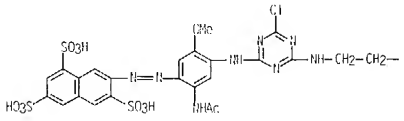

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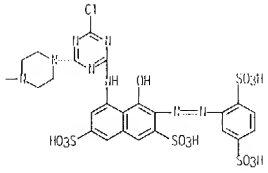

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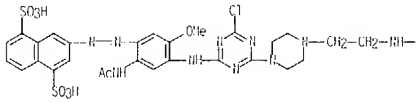

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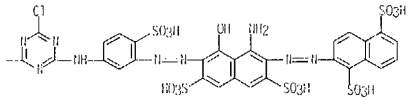

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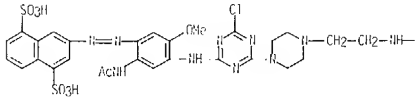

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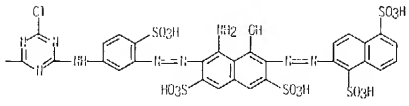

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
[2-[[4-[[3-[[8-amino-7-[(2,5-disulfo-2-naphthalenyl)azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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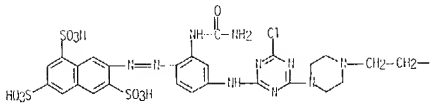

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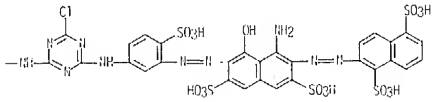

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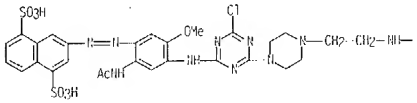

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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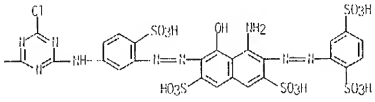

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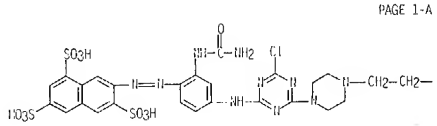

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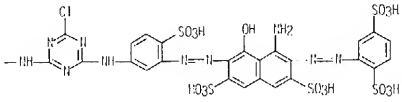

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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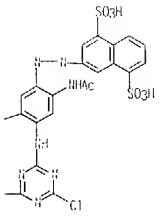

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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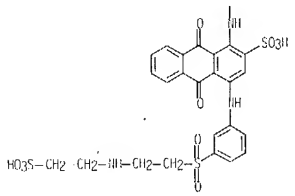

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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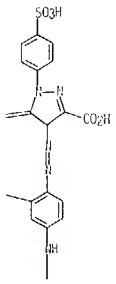

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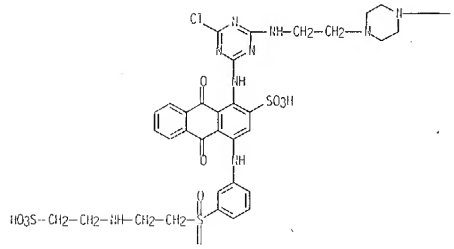

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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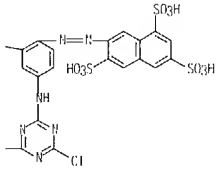

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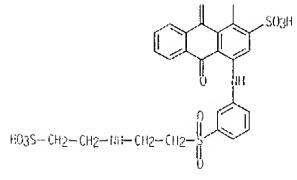

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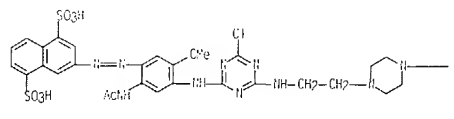

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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RN 644987-88-2 CAPLUS

CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-chloro-6-[4-[2-[[4-chloro-6-[[9,10-dihydro-9,10-dioxo-2-sulfo-4-[(3-[[2-[(2-sulfoethyl)amino]ethyl]sulfonyl]phenyl]amino]-1-anthracenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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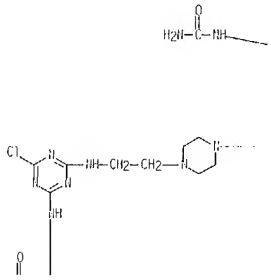

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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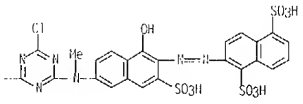

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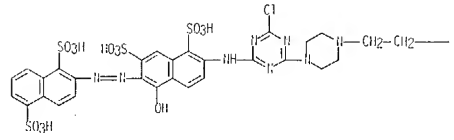

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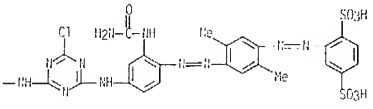

RN 644987-91-7 CAPLUS

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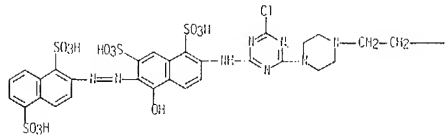

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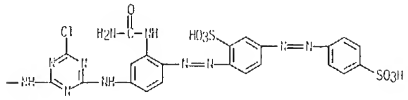

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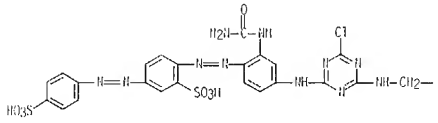

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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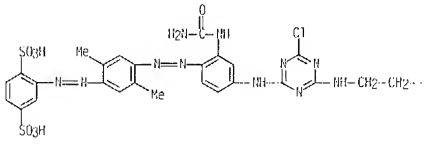

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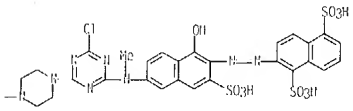

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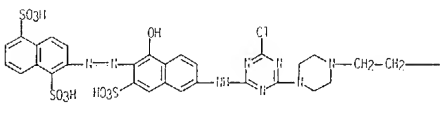

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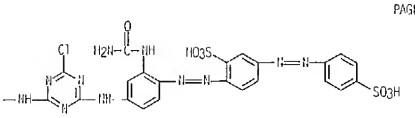

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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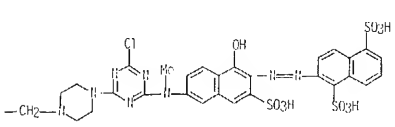

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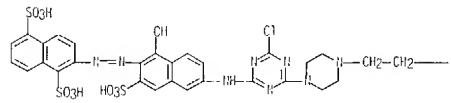

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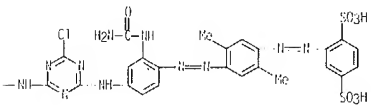

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 644987-96-2 CAPLUS
CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-chloro-6-[[2-[4-[4-chloro-6-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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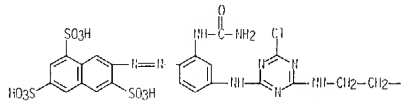

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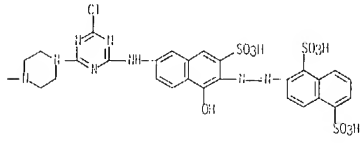

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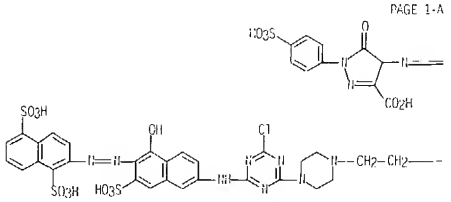

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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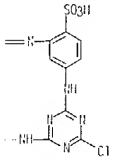

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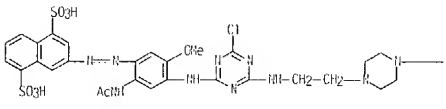

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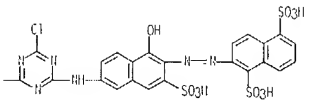

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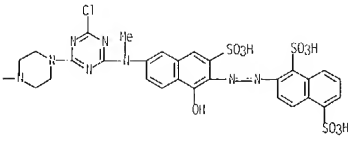

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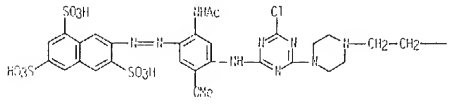

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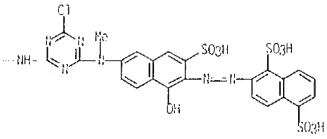

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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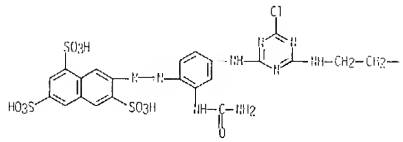

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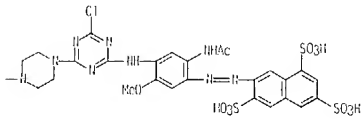

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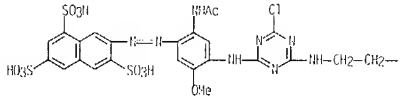

L5 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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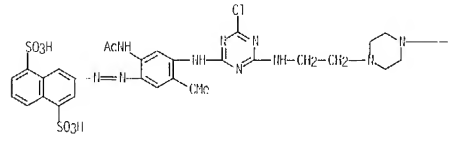

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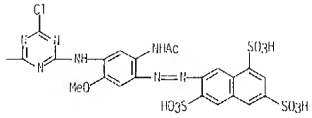

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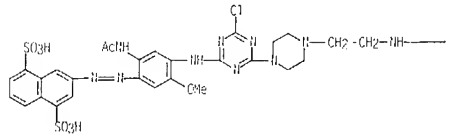

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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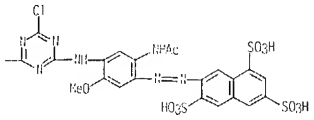

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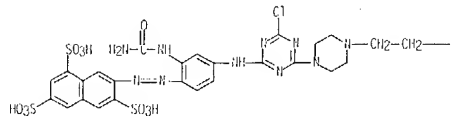

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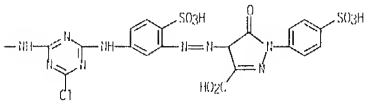

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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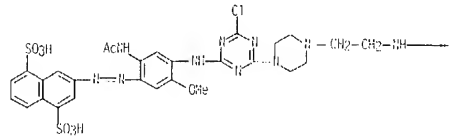

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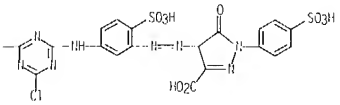

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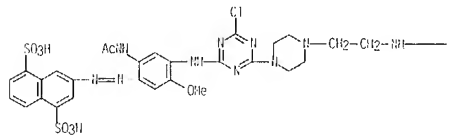

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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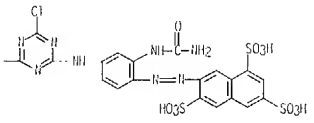

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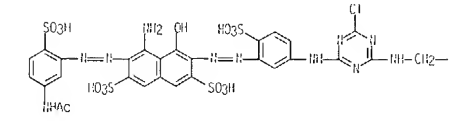

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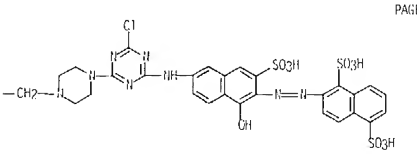

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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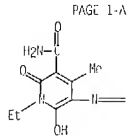

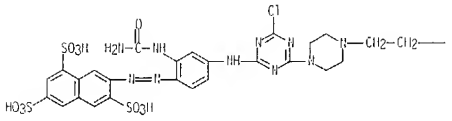

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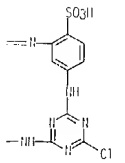

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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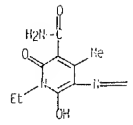

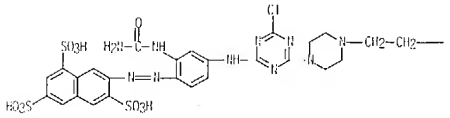

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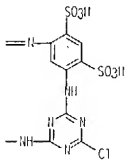

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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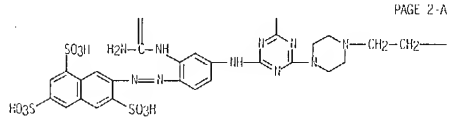

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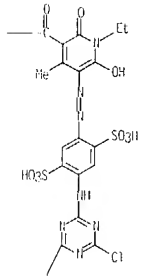

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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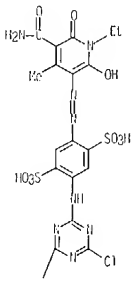

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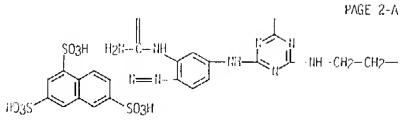

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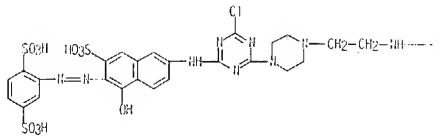

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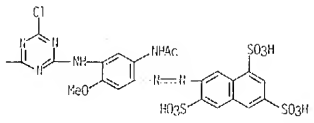

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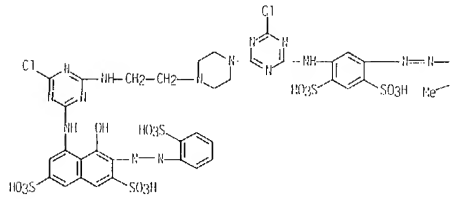

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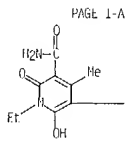

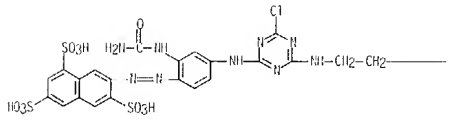

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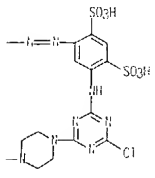

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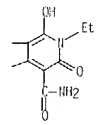

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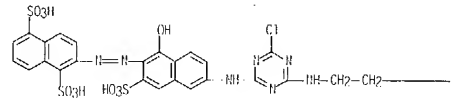

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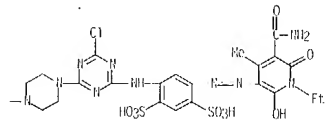

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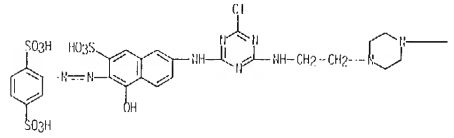

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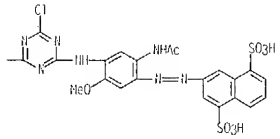

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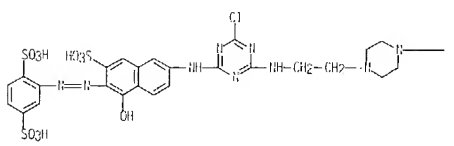

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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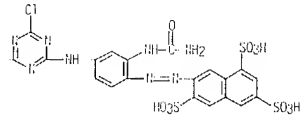

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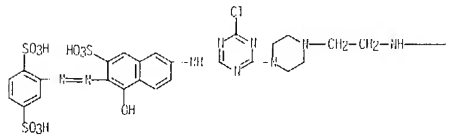

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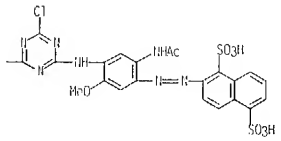

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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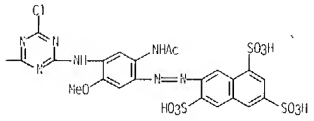

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CN 1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-[[2-[4-[[5-(acetylamino)-4-[(4,8-disulfo-2-naphthalenyl)azo]-2-methoxyphenyl]amino]-6-chloro-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-6-chloro-1,3,5-triazin-2-yl]methylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

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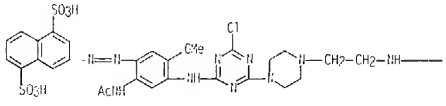

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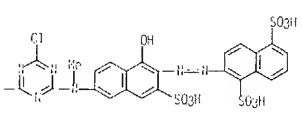

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L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
triazin-2-yl]aminoethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

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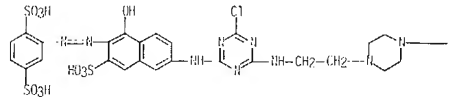

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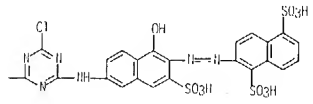

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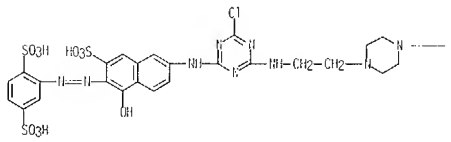

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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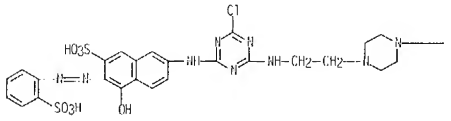

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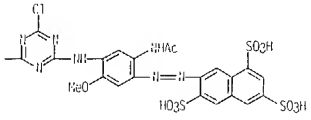

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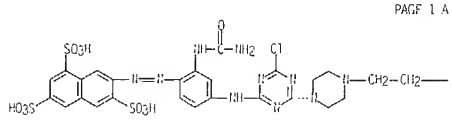

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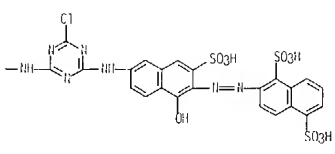

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 644988-34-1 CAPLUS

CN 1,5 Naphthalenedisulfonic acid, 3-[[2-(acetylamino)-4-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-hydroxy-7-[(5-methyl-2-sulfophenyl)azo]-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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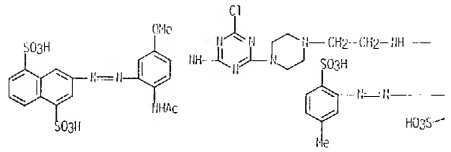

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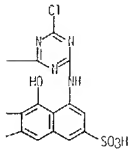

RN 644988-36-3 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[2-(acetylamino)-4-[[4-chloro-6-[4-[2-[[4-chloro-6-[[7-[(4,5-dimethyl-2-sulfophenyl)azo]-8-hydroxy-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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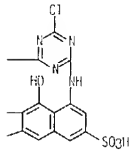

RN 644988-40-9 CAPLUS

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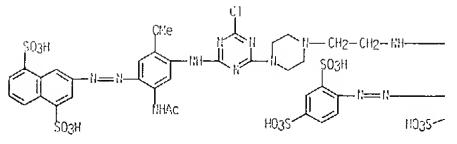

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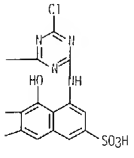

RN 644988-42-1 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 3-[[2-(acetylamino)-4-[[4-chloro-6-[4-[2-

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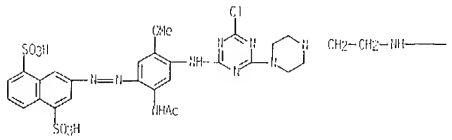

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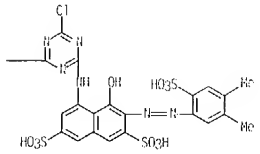

RN 644988-38-5 CAPLUS

CN 1,5 Naphthalenedisulfonic acid, 3-[[2-(acetylamino)-4-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-hydroxy-7-[(4-methyl-2-sulfophenyl)azo]-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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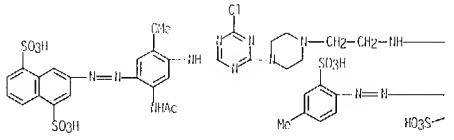

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

[[4-chloro-6-[[8-hydroxy-7-[(4-methyl-2-sulfophenyl)azo]-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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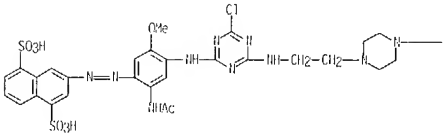

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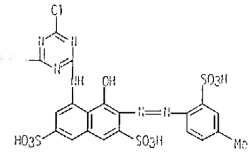

RN 644988-44-3 CAPLUS

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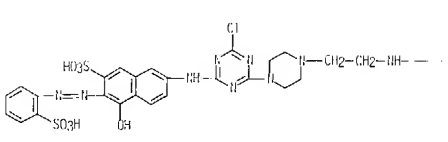

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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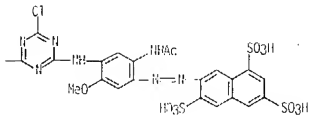

RN 644988-46-5 CAPLUS
CN 1,7-Naphthalenedisulfonic acid, 2-[[4-chloro-6-[[2-[4-[4-chloro-6-[[8-hydroxy-3,6-disulfo-7-[(2-sulfophenyl)azo]-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]-5-hydroxy-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]- (9CI) (CA INDEX NAME)

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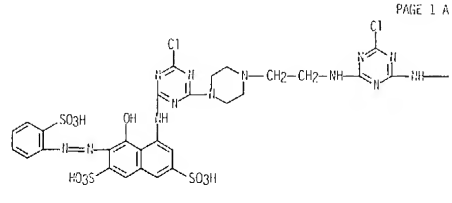

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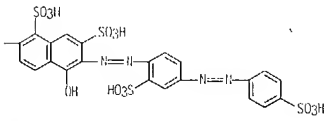

RN 644988-48-7 CAPLUS
CN 1,7-Naphthalenedisulfonic acid, 2-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-

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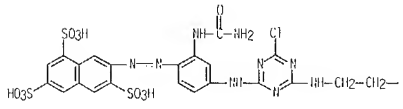

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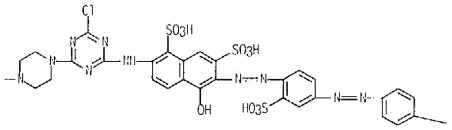

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—SO3H

RN 644988-50-1 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-[[4-[4-[2-[[4-[[3-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

hydroxy-3,6-disulfo-7-[(2-sulfophenyl)azo] 1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-5-hydroxy-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]- (9CI) (CA INDEX NAME)

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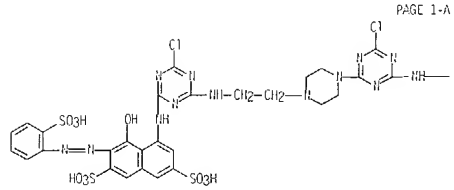

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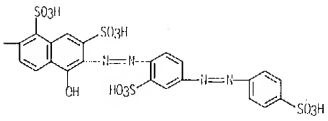

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CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-chloro-6-[[2-[4-[4-chloro-6-[[5-hydroxy-1,7-disulfo-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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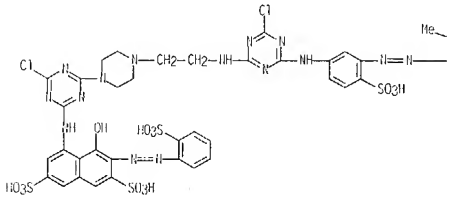

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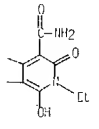

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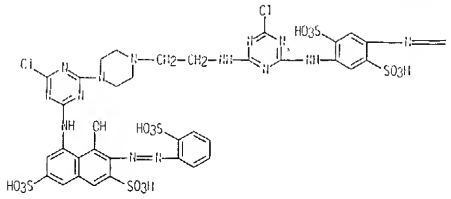

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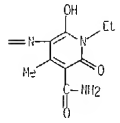
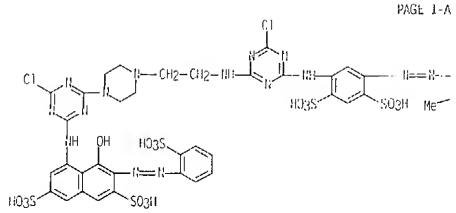


RN 611988-52-3 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-[[1-[4-[2-[[4-[[5-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-2,4-disulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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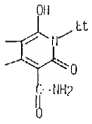
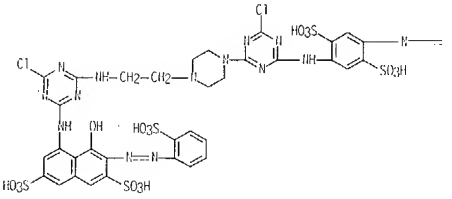


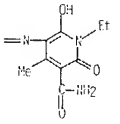
RN 644988-53-4 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 5-[[4-[[2-[[1-[4-[[4-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-2,5-disulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino] 6-chloro-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

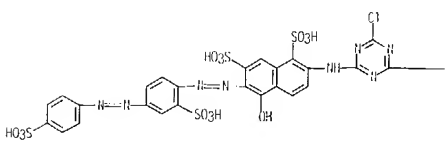


PAGE 1-B



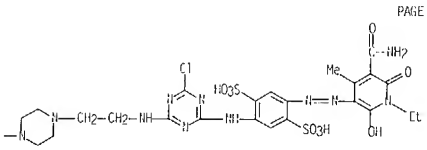
RN 644988-54-5 CAPLUS
CN 1,7-Naphthalenedisulfonic acid, 2-[[4-[4-[2-[[4-[[4-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-2,5-disulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino] 5-hydroxy-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



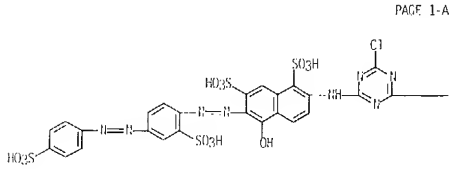
L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 644988-55-6 CAPLUS
CN 1,7-Naphthalenedisulfonic acid, 2-[[4-[4-[2-[[4-[[4-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino] 5-hydroxy-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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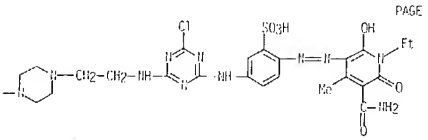
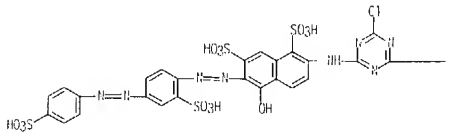


RN 644988-56-7 CAPLUS
CN 1,7-Naphthalenedisulfonic acid, 2-[[4-[4-[2-[[4-[[5-[[5-(aminocarbonyl)-1-ethyl-1,6-dihydro-2-hydroxy-4-methyl-6-oxo-3-pyridinyl]azo]-2,4-disulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-5-hydroxy-6-[[2-sulfo-4-

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
[(4-sulfophenyl)azo]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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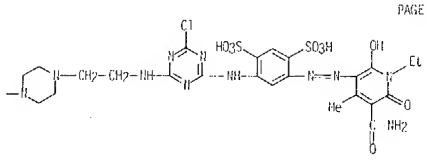
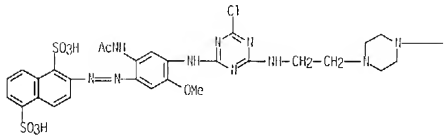


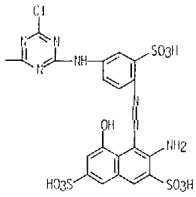
RN 644988-57-8 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[2-(acetylamino)-4-[[4-[[2-[4-[[4-[(2-amino-8-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 644988-59-0 CAPLUS
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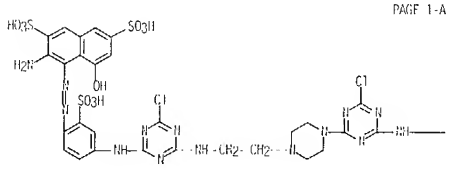
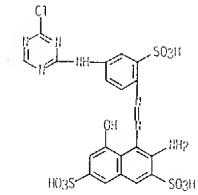
PAGE 1-A



L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 644988-58-9 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[2-(acetylamino)-4-[[4-[4-[2-[[4-[[4-[(2-amino-8-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

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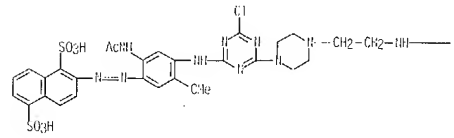
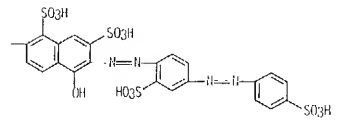


L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 644988-60-3 CAPLUS
CN 1,3,6 Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[1-[[2-[4-[4-[[4-[(2-amino-8-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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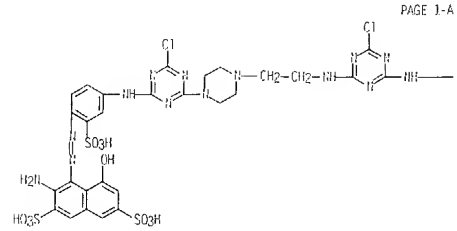
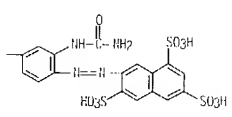


PAGE 1-B

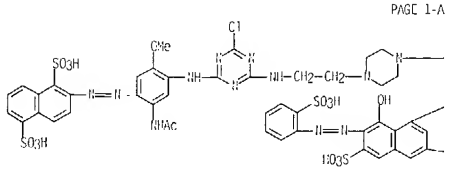


L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 644988-61-4 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 2-[[2-(acetylamino)-4-[[4-chloro-6-[[2-[[4-chloro-6-[[8-hydroxy-3,6-disulfo-7-[(2-sulfophenyl)azo]-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-1,3,5-triazin-2-yl]amino]-5-methoxyphenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



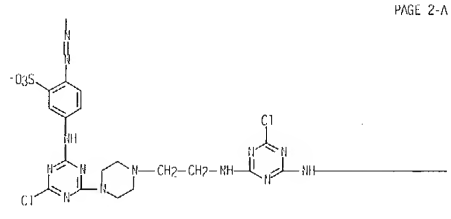
PAGE 1-B

RN 645405-61-4 CAPLUS

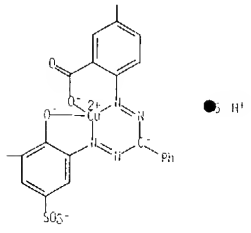
CN Cuprate(6-), [4-[[4-[[4-[[2-[[4-[[3-[[[[2-(carboxy-κO)-4-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-2-(hydroxy-κO)-5-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-1H-pyrazole-3-carboxylato(8-)]-, hexahydrogen (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



PAGE 2-B



RN 645405-62-5 CAPLUS

CN Cuprate(6-), [2-[[[[3-[[4-[[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]-2-(hydroxy-κO)-5-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-5-sulfobenzoato(5-)-κO]-, hexahydrogen (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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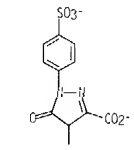
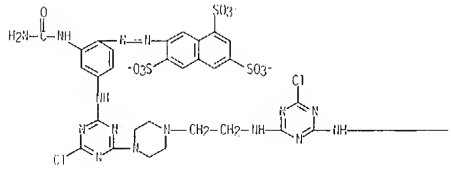


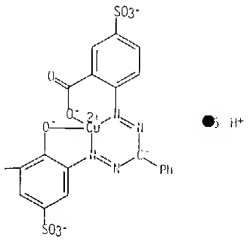
PAGE 1-B

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B

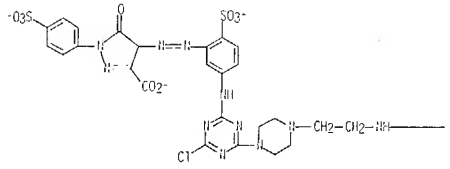


RN 645405-63-6 CAPLUS

CN Cuprate(6-), [4-[[5-[[4-[4-[2-[[4-[[3-[[[[2-(carboxy-κO)-4-sulfophenyl]azo-κN2]phenylmethyl]azo-κN1]-2-(hydroxy-κO)-5-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4,5-dihydro-5-oxo-1-(4-sulfophenyl)-1H-pyrazole-3-carboxylato(8-)]-, hexahydrogen (9CI) (CA INDEX NAME)

L5 ANSWER 2 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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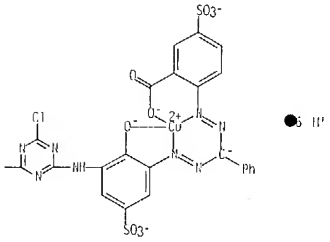

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2002:888829 CAPLUS
DN 137:385992
TI Reactive scarlet azo dyes, their production and their use
IN Ebenezer, Warren James
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002092697	A1	20021121	WO 2002-EP4908	20020504
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	EP 1387865	A1	20040211	EP 2002-753041	20020504
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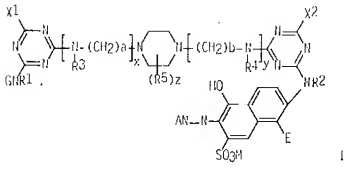
	US 2004138435	A1	20040715	US 2003-477074	20031106
PRAI	GB 2001-11573	A	20010511		
	WO 2002-EP4908	W	20020504		

OS MARPAT 137:385992
GI



AB The invention refers to piperazine-based halotriazine reactive disazo dyes (I; A = optionally substituted 2-sulfophenyl or 1-sulfo-2-naphthyl; E = H, SO2M; G = arylazohydroxysulfonaphthyl; M = H, ammonium, alkali, alkaline earth metal/2; R1-R5 = H, optionally substituted alkyl; X1, X2 = halogen; a, b = 2-5; x, y = 0, 1; z = 0-4). Scarlet I are prepared with 2 different chromophores and have excellent fastness properties. In an example, a dye was prepared starting with 1-(2-aminoethyl)piperazine and condensing with 2 different dichlorotriazinyl azo dyes.

IT **475670-11-2P 475670-13-4P 475670-15-6P**
475670-17-8P 475670-19-0P 475670-21-4P
475670-23-6P 475670-25-8P 475670-26-9P
475670-27-0P 475670-28-1P 475670-32-7P
475670-33-8P 475670-35-0P 475670-36-1P
475670-37-2P 475670-39-4P 475670-41-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(scarlet dye; production of piperazine-based disazo chlorotriazinyl reactive scarlet dyes)

RN 475670-11-2 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-hydroxy-3,6-disulfo-7-[(2-sulfophenyl)azo]-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

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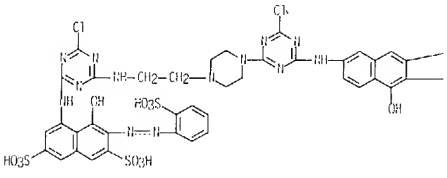
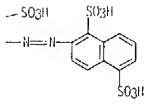


L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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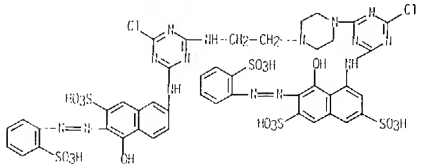

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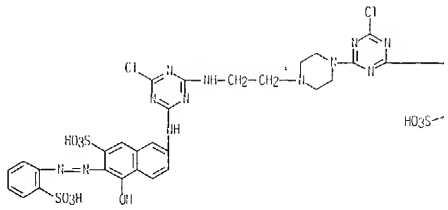
L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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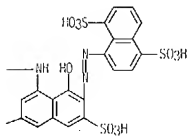

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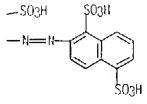
L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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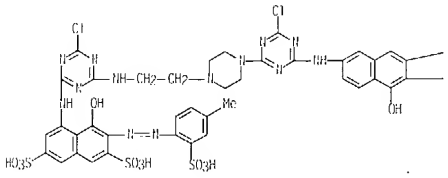

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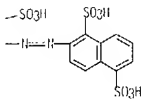

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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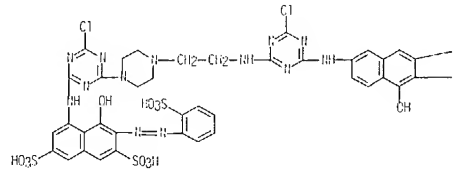

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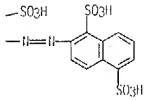

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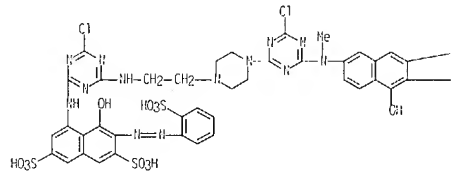

L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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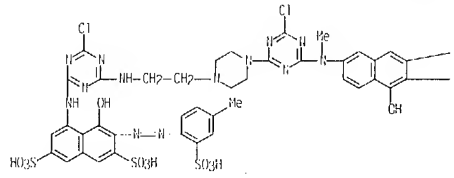

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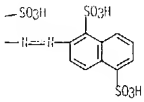

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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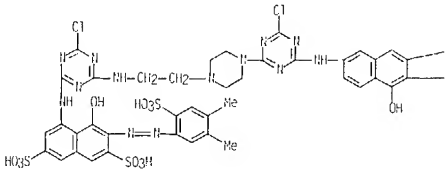

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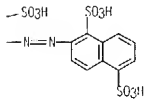

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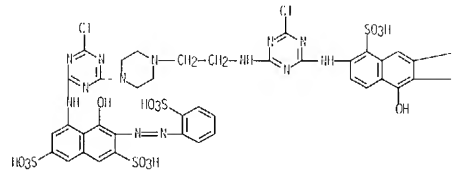

L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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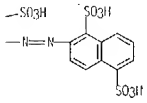

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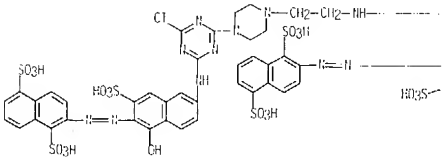

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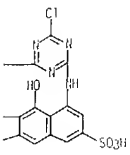

L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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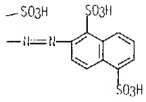

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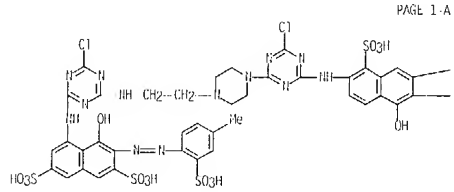

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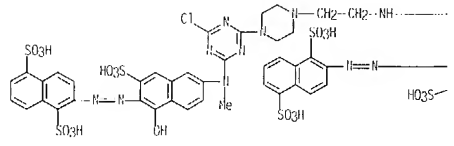

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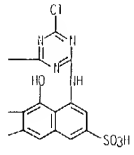

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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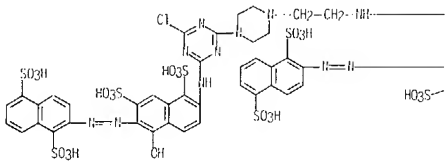

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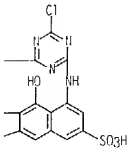

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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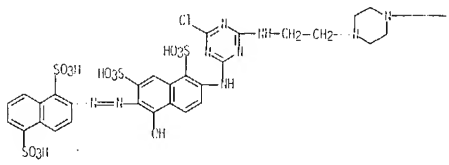

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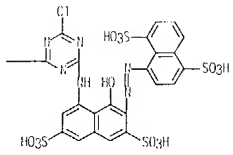

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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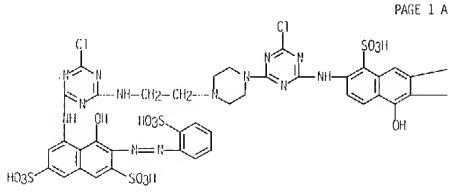

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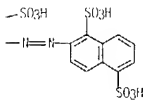

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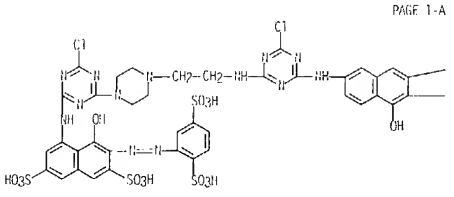

L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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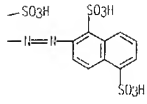

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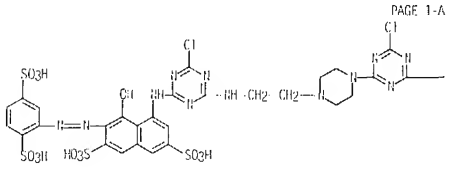

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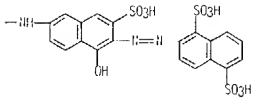

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L5 ANSWER 3 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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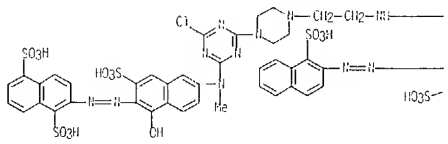

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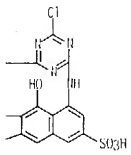

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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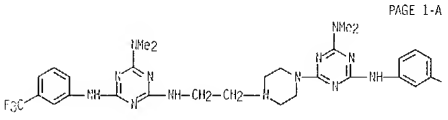

PAGE 1-B

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ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:6713 CAPLUS
DN 136:85833
TI Preparation of N-(diaminotriazinyl)arylaldehyde hydrazones and analogs as antiviral agents
IN Arends, James E.; Cload, Sharon T.; Fleming, Elizabeth S.; Xiang, Yi Bin
PA Scriptgen Pharmaceuticals, Inc., USA
SO U.S., 114 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRAI US 1998-113656P	P	19980113		

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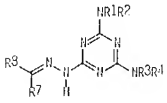


I

AB Title compds. [e.g., I; R1-R8 = H, (un)substituted alk(en)yl, -(hetero)aryl, etc.; R1R2,R3R4,R7R8 = atoms to complete a ring] were prepared. Preparation of select I (e.g., R1 = CH2Ph, R2 = R4 = R7 = H, R3 = CMe3, R8 = C6H4F-2) was described. Data for biol. activity of I were given.

IT **232937-54-1P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-(diaminotriazinyl)arylaldehyde hydrazones and analogs as antiviral agents)

RN 232937-54-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N'-[2-[4-[4-(dimethylamino)-6-[[3-(trifluoromethyl)phenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N-dimethyl-N''-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:932571 CAPLUS
DN 136:55381
TI Ink-jet inks, printing method and units therewith, their ink cartridges, ink sets and apparatus
IN Kanke, Takeshi; Mafune, Kumiko
PA Canon Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001351881	A2	20011225	JP 2000-176136	20000612
PRAI JP 2000-176136		20000612		

OS MARPAT 136:55381
GI

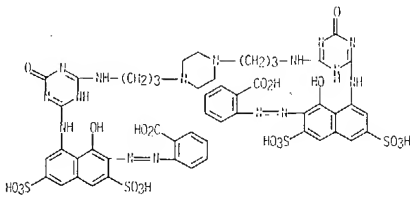
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *

AB Title aqueous inks, with good light and smudge resistance, contain I [R1 = (substituted) alkoxy, (substituted) aryl; R2, R4 = H, (substituted) alkyl; R3 = H, (substituted) alkyl, (substituted) alkoxy, (substituted) aryloxy, halogen; X1 = CO2H (salt) or SO3H (salt); n = 1-2] and II [Ar1, Ar2 = (substituted) aryl with at least one of Ar1 and Ar2 substituted with CO2H (salt) or SO3H (salt); L = divalent organic group; M = H, alkali metal, NH4, organic ammonium; R5 = triazine (derivative); R6, R7 = H, (substituted) alkyl, (substituted) alkenyl, (substituted) aralkyl, perhydroxyazine ring]. An aqueous ink containing I (R1-R4 = H, X1 = p-CO2H or salts, n = 1) and II (Ar1, Ar2 = o-CO2HC6H4, L = III, M = H, R5 = IV, R6 = R7 = H) was used to print on various paper to form prints having good color tone, light resistance (100 h, fademeter), and smudge prevention (after 1 wk at 30° and 80% relative humidity).

IT **382604-55-9D**, free acid/salts with Li, Na, NH4 or quaternary ammonium
RL: TEM (Technical or engineered material use); USES (Uses)
(aqueous ink-jet inks containing disazo and benzoanthracene dyes for light and smudge resistance)

RN 382604-55-9 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(1,6-dihydro-6-oxo-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis- (9CI) (CA INDEX NAME)

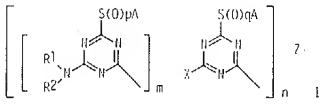
L5 ANSWER 5 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:746973 CAPLUS
DN 135:305178
TI Reactive dyes and their application
IN Patsch, Manfred; Seybold, Guenther
PA Dystar Textilfarben GmbH & Co. Deutschland KG, Germany
SO Ger. Offen., 18 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 10008871	A1	20011011	DE 2000-10008871	20000225
PRAI DE 2000-10008871		20000225		

OS MARPAT 135:305178
GI



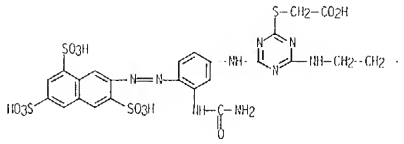
AB Reactive dyes I (A = organic group; R1, R2 = H, organic group; X = chromophore, such as azo, with optional fiber-reactive groups; Z = imino-containing connective group; m = 0, 1; n = 1, 2, 3; p = 0, 1, 2; q = 0, 1, 2) are disclosed which are suitable for dyeing or printing of substrates containing OH groups or N atoms. I are especially suitable for application in combination with other dyes. Several examples of reactive dis- and trisazo dye production were given.

IT **366001-29-8P 366001-30-1P 366001-32-3P**
366001-33-4P
RL: IMF (Industrial manufacture); RCT (Reactant); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(dye; production of reactive dis- and trisazo dyes)

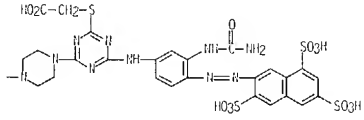
RN 366001-29-8 CAPLUS
CN Acetic acid, [[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[4-[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[(carboxymethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]thio]- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



RN 366001-30-1 CAPLUS
CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-[[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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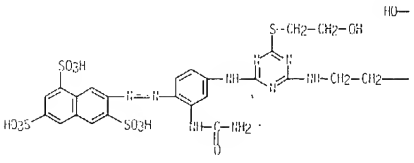
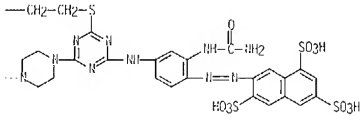


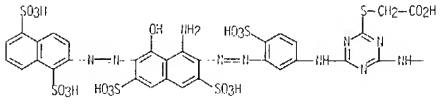
L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



RN 366001-32-3 CAPLUS
CN Acetic acid, [[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[4-[2-[[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[(carboxymethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]thio]- (9CI) (CA INDEX NAME)

PAGE 1-A



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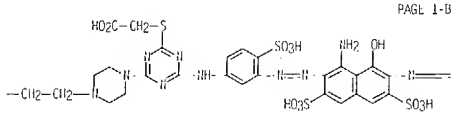

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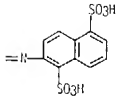
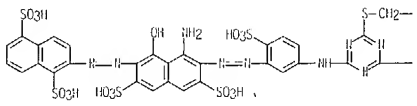


L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 366001-33-4 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[8-amino-7-[[5-[[4-[4-[2-[[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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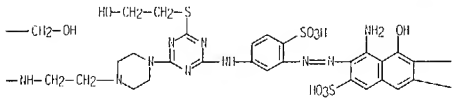
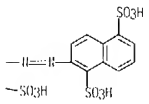


PAGE 1-C

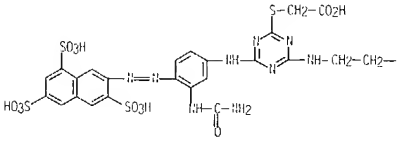


IT 366001-29-8DP, oxidized 366001-30-1DP, oxidized
366001-32-3DP, oxidized 366001-33-4DP, oxidized
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; production of reactive dis- and trisazo dyes)

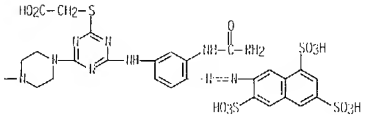
L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 366001-29-8 CAPLUS
CN Acetic acid, [[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[4-[2-[[4-[[3-[(aminocarbonyl)amino]-1-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[(carboxymethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]thio]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RN 366001-30-1 CAPLUS
CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-[4-[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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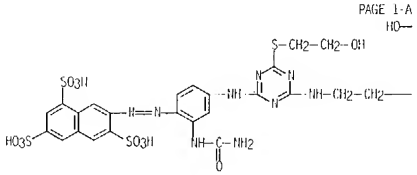
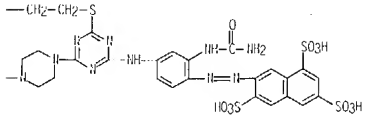
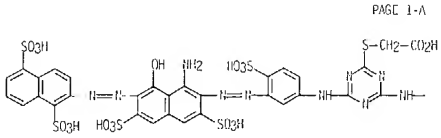


PAGE 1-B



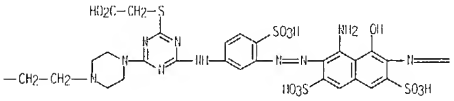
RN 366001-32-3 CAPLUS
CN Acetic acid, [[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[4-[2-[[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[(carboxymethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]thio]- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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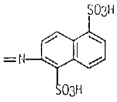
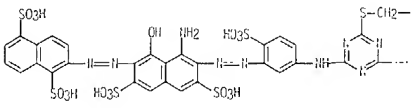


RN 366001-33-4 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[8-amino-7-[[5-[[4-[4-[2-[[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-[(2-hydroxyethyl)thio]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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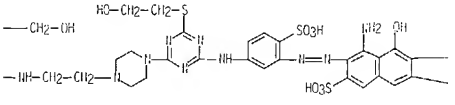
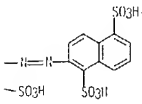


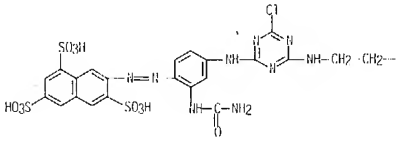
L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-C



IT **220211-69-8 366001-31-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; production of reactive dis- and trisazo dyes)
RN 220211-69-8 CAPLUS
CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-[4-[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



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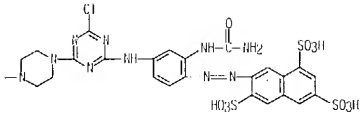
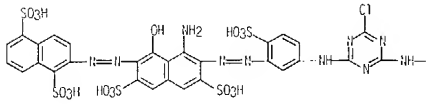
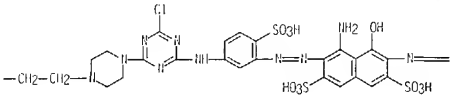


L5 ANSWER 6 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 366001-31-2 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 2-[[8-amino-7-[[5-[[4-[4-[2-[[4-[[3-[(1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

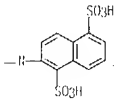
PAGE 1-A



PAGE 1-B



PAGE 1-C



L5 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:472837 CAPLUS
DN 135:78218
TI Reactive azo dye mixtures and their use
IN Brennan, Colin; Patsch, Manfred
PA Dystar Textilfarben G.m.b.H. + Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001046321	A2	20010628	WO 2000-EP13128	20001221
	WO 2001046321	A3	20011227		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	DE 19962228	A1	20010628	DE 1999-19962228	19991222
	BR 2000016552	A	20020917	BR 2000-16552	20001221
	EP 1255789	A2	20021113	EP 2000-985235	20001221
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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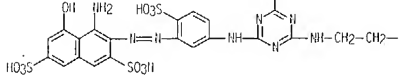
	ZA 2002004909	A	20030610	ZA 2002-4909	20020619
	US 20031639/9	A1	20030904	US 2002-149686	20020712
PRAI	DE 1999-19962228	A	19991222		
	WO 2000-EP13128	W	20001221		

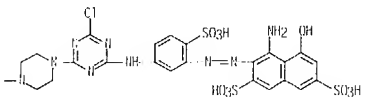
OS MARPAT 135:78218
AB The invention relates to a dye mixture which contains two or more compds. of the formula A-D-(B)a-Y-(B)b-D-A, where A is a chromophore group, B is a fiber-reactive triazine group, D is a sulfonated azo dye moiety, and Y is an amino-containing bridging group; a, b ≥0. The dyes may be mixed or synthesized together. The mixture provides improved color uniformity and intensity, in comparison to the corresponding individual compds.
IT **346687-36-3DP**, coupling products with diazotized aminonaphthalenedisulfonic acids
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(green dye; production of reactive azo dye mixts.)
RN 346687-36-3 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-amino-3-[[5-[[6-[4-[2-[[6-[[3-[(1-amino-8-hydroxy-3,6-disulfo-2-naphthalenyl)azo]-4-sulfophenyl]amino]-4-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-4-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

L5 ANSWER 7 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



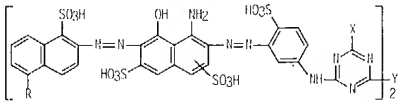
PAGE 1-B



L5 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:117119 CAPLUS
DN 132:167667
TI Reactive tetrakisazo dyes, their preparation and use
IN Ebenezer, Warren James; Mynett, Donna Maria
PA BASF A.-G., Germany
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000003104	A1	20000217	WO 1999-GB2447	19990726
	W: BR, CN, IN, JP, KR, TR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	BR 9912628	A	20010502	BR 1999-12628	19990726
	EP 1100847	A1	20010523	EP 1999-934987	19990726
	EP 1100847	B1	20030416		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TR 200100320	T2	20010621	TR 2001-200100320	19990726
	JP 2002522587	T2	20020723	JP 2000-563731	19990726
	AT 237661	E	20030515	AT 1999-934987	19990726
	PT 1100847	T	20030731	PT 1999-934987	19990726
	ES 2197658	T3	20040101	ES 1999-934987	19990726
	US 6359121	B1	20020319	US 2001-744254	20010131
PRAI	GB 1998-16780	A	19980731		
	WO 1999-GB2447	W	19990726		

OS MARPAT 132:167667
GI

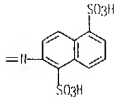


I

AB The dyes have the formula I [each R = H, SO3H; each X = F, Cl, (un)substituted pyridinium; Y = NR1ZNR2 (with 1 exception), NR3ZS; R1-R3 =

L5 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-C



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

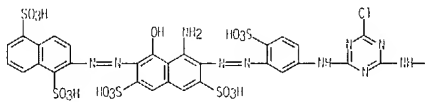
L5 ANSWER 8 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
C1-4 alkyl, C1-4 aminoalkyl, C1-4 hydroxyalkyl, or R1R2 completes a heterocycle; Z = (un)substituted C5-12 cycloalkylene or C5-12 (hetero)arylene, Z2 such groups linked together, (un)substituted (un)interrupted (by N, O, S, or such a cyclic group) C1-15 alkylene or C2-15 alkenylene] or are salts of such I. Thus, H acid Na salt was coupled with diazotized 2,4 H2NC(Ac)NH)C6H3SO3H and the product was coupled with diazotized 2,1,5-H2NC10H5(SO3H)2 to give a disazo compd., which was deacetylated and condensed with cyanuric chloride, and the resulting dichlorotriazine deriv. was condensed 2:1 with EtNHCH2CH2NH2 to give a I. λmax 616 nm, which dyed cotton in a fast greenish navy shade.

IT **258516-26-6P**
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of reactive tetrakisazo dyes)

RN 258516-26-6 CAPLUS

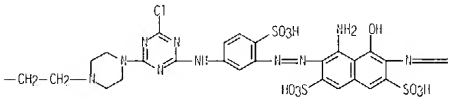
CN 1,5-Naphthalenedisulfonic acid, 2-[[8-amino-7-[[5-[[4-[4-[[4-[[3-[[1-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-, decasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



●10 Na

PAGE 1-B



L5 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:464283 CAPLUS
DN 131:111412
TI Triazine antiviral compounds
IN Arenas, Jaime E.; Cload, Sharon L.; Fleming, Elizabeth S.; Xiang, Yi Bin
PA Scriptgen Pharmaceuticals, Inc., USA
SO PCT Int. Appl., 194 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9936410	A1	19990722	WO 1999-US945	19990113
	W: CA, GD, HR, ID, IN, JP				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	CA 2318362	AA	19990722	CA 1999-2318362	19990113
	EP 1053230	A1	20001122	EP 1999-902309	19990113
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2002509140	T2	20020326	JP 2000-540126	19990113
PRAI	US 1998-6430	A	19980113		
	WO 1999-US945	W	19990113		

OS MARPAT 131:111412

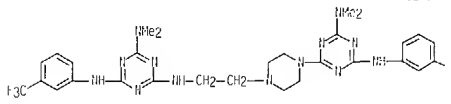
AB Pharmaceutical formulations comprising 1,3,5-triazine derivs. are provided. The compds. and formulations of the invention exhibit a range of activities, including antiviral and antibiotic activities, and the formulations may be used, alone or in combination, as a method of treating a patient in need of antiviral and/or antibiotic therapy. The triazine derivs. bind to and inhibit functional nucleic acids, and hence, have broad applicability in the treatment of conditions associated with DNA and RNA viruses.

IT **232937-54-1**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(triazine antiviral compds.)

RN 232937-54-1 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N'-[2-[4-[4-(dimethylamino)-6-[[3-(trifluoromethyl)phenyl]amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N-dimethyl-N''-[3-(trifluoromethyl)phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 9 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

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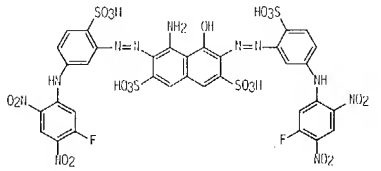
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1999:355837 CAPLUS
DN 131:6563
TI Preparation of reactive dyes containing a halobenzene nucleus
IN Taylor, John Anthony; Rabjohns, Michael Alan
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9927019	A2	19990603	WO 1998-GB3406	19981112
	WO 9927019	A3	19990715		
	W: BR, CN, ID, JP, KR, TR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1029002	A2	20000823	EP 1998-952935	19981112
	EP 1029002	B1	20040512		
	R: CH, DE, ES, GB, IT, LI, PT				
	JP 2001524570	T2	20011204	JP 2000-522167	19981112
	EP 1333062	A1	20030806	EP 2003 7521	19981112
	R: CH, DE, ES, GB, IT, LI, PT				
	CN 1121456	B	20030917	CN 1998 811133	19981112
	TW 508365	B	20021101	TW 1998-87121801	19981229
	US 6399751	B1	20020604	US 2000-554325	20000724
	US 2003191293	A1	20031009	US 2002-117279	20020408
	US 2003158395	A1	20030821	US 2002-158879	20020603
PRAI	GB 1997-23924	A	19971112		
	EP 1998-952935	A3	19981112		
	WO 1998-GB3406	W	19981112		
	US 2000-554325	A3	20000724		

OS MARPAT 131:6563
GI



I

L5 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

AB Reactive dyes having at least one halobenzene nucleus linked to a chromophoric group via an amino linkage and addnl. containing a second reactive group were prepared. E.g., fluorodinitrophenyl-substituted azo dye I was prepared. The reactive dyes were used to dye textiles and may be used to prepare inks.

IT **225651-79-6P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(golden yellow dye; preparation of reactive dyes containing a halobenzene nucleus)

RN 225651-79-6 CAPLUS

CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[[4-chloro-6-[4-[2-[[4-chloro-6-[[5-[(5-fluoro-2,4-dinitrophenyl)amino]-2-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-4-[(5-fluoro-2,4-dinitrophenyl)amino]phenyl]azo]- (9CI) (CA INDEX NAME)

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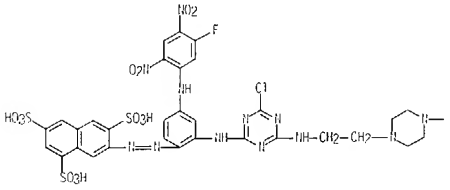
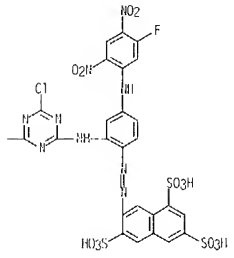


L5 ANSWER 10 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

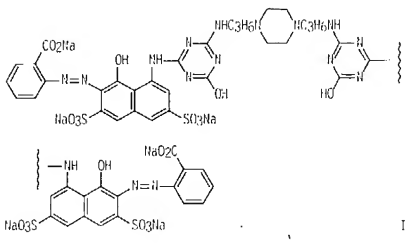
PAGE 1-B



L5 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:312682 CAPLUS
DN 130:353796
TI Preparation of ionic compounds by removing unnecessary ions by dialysis and ink-jet inks containing the ionic compounds
IN Shimizu, Wataru
PA Mitsubishi Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11130699	A2	19990518	JP 1997-290668	1997/1023
PRAI	JP 1997-290668		19971023		

GI



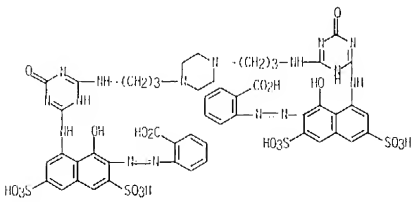
I

AB Ionic compds. having ionic water soluble groups, used as dyes, agrochems., drugs, detergents, food additives, etc., are prepared by adding counterions to aqueous solns. or aqueous suspensions of the ionic compds. and dialyzing the solns. or suspensions using a porous separating materials to remove unnecessary ions and exchange the counter ions. Also claimed are ink-jet inks containing dyes prepared as described above. A magenta dye I (prepared from H acid, cyanur chloride, 1,4-bisaminopropylpiperazine, and 2-aminobenzoic acid) was dissolved in H2O and the aqueous solution was dialyzed using a reverse-osmosis membrane at 40° while supplying H2O for 2.5 h. After addition of H2O and NH4Cl the dialysis was continued for 1 h while

L5 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
supplying H2O and further for 1 h without water supply. The above process was repeated 2 times to give an aq. soln. of I, in which >99% of SO3H and CO2H are exchanged with NH4. An ink-jet ink contg. the dye soln., diethylene glycol, and iso-Pr alc. was also manufd.

IT 225239-68-9P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of ionic dyes and exchange of counterion by removing unnecessary ions by dialysis in the presence of wanted counterions, and ink-jet inks containing the dyes)

RN 225239-68-9 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(1,6-dihydro-6-oxo-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, hexaammonium salt (9CI) (CA INDEX NAME)

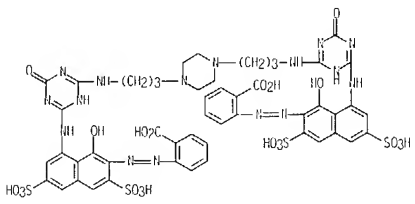


● 6 NH3

IT 218281-61-9P
RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of ionic dyes and exchange of counterion by removing unnecessary ions by dialysis in the presence of wanted counterions, and ink-jet inks containing the dyes)

RN 218281-61-9 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(6-hydroxy-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, hexasodium salt (9CI) (CA INDEX NAME)

L5 ANSWER 11 OF 40 CAPLUS COPYRIGHT 2001 ACS on STN (Continued)

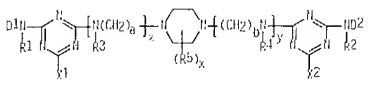


● 6 Na

L5 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:96317 CAPLUS
DN 130:154986
TI Reactive dyes containing a piperazine residue, their preparation and use
IN Ebenezer, Warren James; Hynell, Donna Maria
PA BASF A.-G., Germany
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9905224	A1	19990204	WO 1998-GB2162	19980720
	W: BR, CN, ID, JP, KR, TR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 998531	A1	20000510	EP 1998-935169	19980720
	EP 998531	B1	20020306		
	R: CH, DE, ES, GB, IT, LI, PT				
	BR 9811035	A	20000801	BR 1998-11035	19980720
	TR 200000227	T2	20000921	TR 2000-200000227	19980720
	JP 2001510875	T2	20010807	JP 2000-504705	19980720
	PT 998531	T	20020830	PT 1998-935169	19980720
	ES 2173604	T3	20021016	ES 1998-935169	19980720
	CN 1102947	B	20030312	CN 1998-807524	19980720
	TW 568940	B	20040101	TW 1998-87112140	19980724
	US 6248871	B1	20010619	US 2000-462500	20000124
PRAI	GB 1997-15830	A	19970725		
	WO 1998-GB2162	W	19980720		

OS MARPAT 130:154986
GI



I

AB The dyes have the formula I [D1, D2 = azo chromophoric group; R1-R4 = H, (un)substituted alkyl; each R5 = alkyl; X1, X2 = labile atom or group; a, b = 1-5; x, y = 0, 1; (x + y) ≥ 1; z = 0-4]. They can be prepared by reacting a piperazine derivative with resp. equimolar quantities of 2 triazine ring-containing reactive azo dyes or with 2 mol of a single reactive azo dye. For coloration of a substrate the dyes can be applied at pH >7 by, for example, exhaust dyeing, padding, or printing. Thus, an aqueous solution of 0.021 mol 7-[[4-(dichlorotriazinylamino)-2-ureidophenyl]azo]-1,3,6-naphthalenetrisulfonic acid was added over 15 min to an aqueous solution of 0.01 mol 1-(2-aminoethyl)piperazine at room temperature and kept overnight to give a

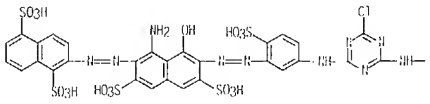
L5 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
1 with λmax 426 nm.

IT **220211-73-4P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(navy; reactive azo dyes containing a piperazine residue)

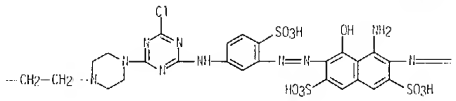
RN 220211-73-4 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 2-[[1-amino-7-[[5-[[4-[[4-[[2-[[4-[[3-[[8-amino-7-[(1,5-disulfo-2-naphthalenyl)azo]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]-4-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-8-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

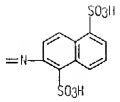
PAGE 1-A



PAGE 1-B

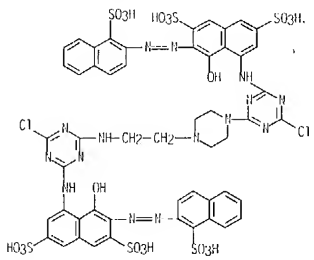


PAGE 1-C



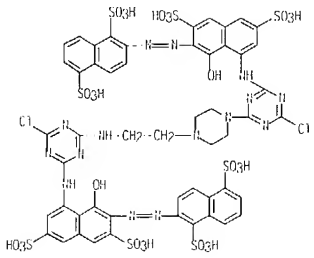
IT **220211-70-1P 220211-71-2P 220211-72-3P**

L5 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 220211-72-3 CAPLUS

CN 1,5-Naphthalenedisulfonic acid, 2-[[8-[[4-chloro-6-[[4-[[2-[[4-chloro-6-[[7-[(1,5-disulfo-2-naphthalenyl)azo]-8-hydroxy-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)



IT **220211-69-8P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(yellow; reactive azo dyes containing a piperazine residue)

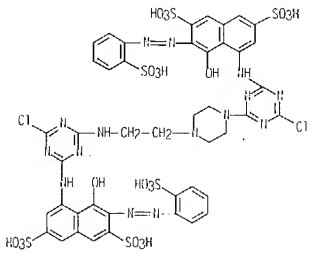
RN 220211-69-8 CAPLUS

CN 1,3,6-Naphthalenetrisulfonic acid, 7-[[2-[(aminocarbonyl)amino]-4-[[4-[[4-[[2-[[4-[[3-[(aminocarbonyl)amino]-4-[(3,6,8-trisulfo-2-naphthalenyl)azo]phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]ethyl]-1-

L5 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(red; reactive azo dyes contg. a piperazine residue)

RN 220211-70-1 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 5-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-hydroxy-3,6-disulfo-7-[(2-sulfophenyl)azo]-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(2-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

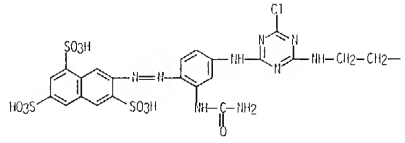


RN 220211-71-2 CAPLUS

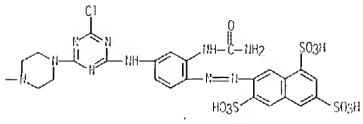
CN 2,7-Naphthalenedisulfonic acid, 5-[[4-chloro-6-[4-[2-[[4-chloro-6-[[8-hydroxy-3,6-disulfo-7-[(1-sulfo-2-naphthalenyl)azo]-1-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(1-sulfo-2-naphthalenyl)azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 12 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
piperazinyl]-6-chloro-1,3,5-triazin-2-yl]amino]phenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

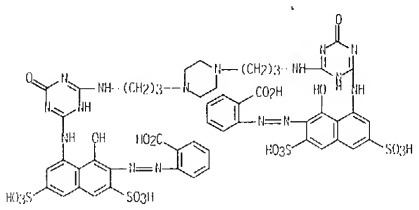


RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 13 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:806502 CAPLUS
DN 130:73879
TI Printing method utilizing magenta ink
IN Katsuragi, Takashi; Teraoka, Hisashi; Yamamoto, Mayumi
PA Canon K. K., Japan
SO Jpn. Kokai Tokkyo Koho, 21 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10329418	A2	19981215	JP 1998-80747	19980327
PRAI JP 1997-96364		19970401		

AB The printing method utilizes a specific anionic magenta ink for producing a magenta image which satisfies specified CIA Lab relations. The method is especially suitable for the ink-jet printing. The printed image shows excellent water-resistance and bright magenta color.
IT **218281-61-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(in magenta ink-jet printing ink)
RN 218281-61-9 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(6-hydroxy-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, hexasodium salt (9CI) (CA INDEX NAME)



● 6 Na

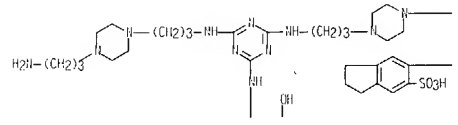
L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:697319 CAPLUS
DN 129:277343
TI Bis[[2-[(indanylazo)sulfonaphthylamino]triazin-4-yl]amino] substituted derivatives, free of fiber-reactive groups, as colorants for ink-jet inks
IN Tallant, Neil Antony; Gregory, Peter; Wight, Paul
PA Zeneca Limited, UK
SO Brit. UK Pat. Appl., 34 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI GB 2317184	A1	19980318	GB 1997 18343	19970901
GB 2317184	B2	20000816		
PRAI GB 1996-18976	A	19960911		
GB 1996-18994	A	19960911		

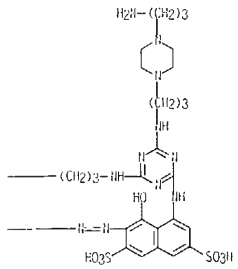
OS MARPAT 129:277343
AB Disazo dyes containing 2 sulfoindan, triazinyltriamino, and 3-sulfo-α-naphthol groups are disclosed. The dyes have good wet and light fastness when employed in aqueous jet-printing inks. Thus, 5-aminoindan-6-sulfonic acid was diazotized and coupled with the 1:1 product of cyanuric chloride and 1-amino-8-naphthol-3,6-disulfonic acid and the resulting dichlorotriazinyl azo dye was condensed twice with 1,4-bis(3-aminopropyl)piperazine to give a disazo dye which was incorporated into a jet-printing ink base.
IT **213972-61-3P 213972-62-4P 213972-63-5P**
213972-65-7P 213972-66-8P 213972-71-5P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; preparation of disazo dyes for aqueous jet-printing inks)
RN 213972-61-3 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediylimino[6-[[3-[4-(3-aminopropyl)-1-piperazinyl]propyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[6-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-5-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

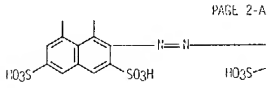


PAGE 1-B



L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

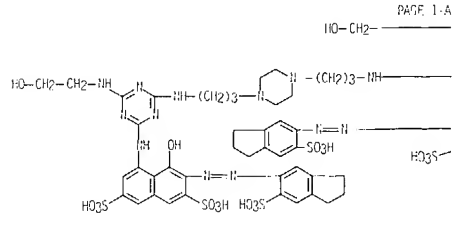


● 6 Na

PAGE 2-B

RN 213972-62-4 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediylimino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino]]bis[6-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-5-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

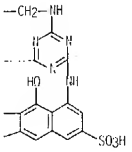
PAGE 1-A



● 6 Na

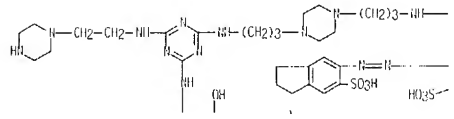
L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



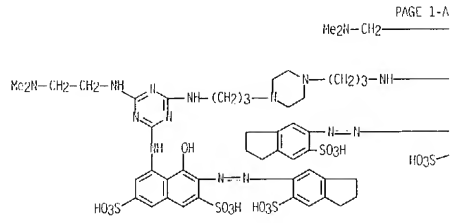
RN 213972-63-5 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediyliminno[6-[[2-(1-piperazinyl)ethyl]amino] 1,3,5-triazine-4,2-diyl]imino]]bis[6-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-5-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



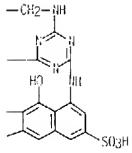
L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



● 6 Na

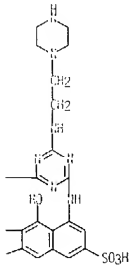
PAGE 1-B



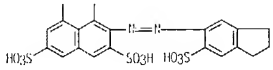
RN 213972-66-8 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediyliminno(6-amino-1,3,5-triazine-4,2-diyl)imino]]bis[6-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-5-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



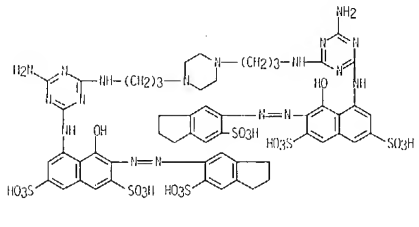
PAGE 2-A



● 5 Na

RN 213972-65-7 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediyliminno[6-[[2-(dimethylamino)ethyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[6-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-5-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

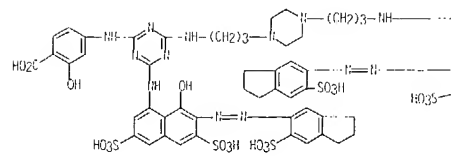
L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



● 6 Na

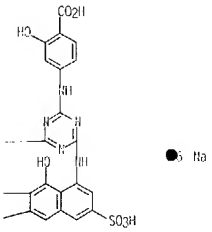
RN 213972-71-5 CAPLUS
CN Benzoic acid, 4,4'-[1,4-piperazinediylbis[3,1 propanediyliminno[6-[[7-[(2,3-dihydro-6-sulfo-1H-inden-5-yl)azo]-8-hydroxy-3,6-disulfo-1-naphthalenyl]amino]-1,3,5-triazine-4,2 diyl]imino]]bis[2-hydroxy-, hexasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



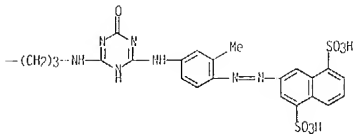
L5 ANSWER 14 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



L5 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

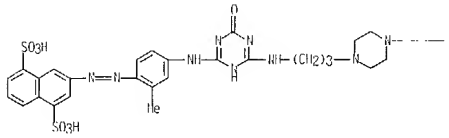


L5 ANSWER 15 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:674915 CAPLUS
DN 130:4974
TI Ink-jet printing inks with good color production on plain paper
IN Sano, Hideo; Yamada, Masahiro; Nishimura, Toru
PA Mitsubishi Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10279858	A2	19981020	JP 1997 83728	19970402
PRAI JP 1997-83728		19970402		

OS MARPAT 130:4974
AB The inks giving light- and water-resistant prints on paper are prepared in aqueous medium and contain p-(A1N:N)C6H2R1R2NHZ1Y1Z2NHC6H2R3R4(N:NA2)-p [A1 2 = (optionally SO3H-substituted) Ph, naphthyl groups; R1-4 = H, (optionally substituted) C1-4 alk(ox)yl, NHCOR5 (R5 = NH2, C1-4 alkyl group), halogen, CN group; Z1,2 = (optionally amine- or ether group-containing) triazinediyl groups; Y1 = NH(CH2)aX(CH2)b(NH)c (X = 1,4-piperazinediyl group), 1,4-piperazinediyl or specified amino linking groups; a, b = 0-6; c = 0, 1] and m-(B1N:N)C6H2R6R7NH(Z3Y2)nZ4NHC6H2R8R9(N:NB2)-m [B1,2 = (optionally substituted) 6-hydroxy-2-pyridon-5-yl or 5-hydroxy-1-phenyl-pyrazol-4-yl groups; R6-9 = H, SO3H, COOH; Z3,4 = (optionally amine- or ether group-containing) triazinediyl groups; Y2 = Y1; n = 0, 1] as colorants.
IT 215871-61-7
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(ink-jet printing inks with good color production on plain paper)
RN 215871-61-7 CAPLUS
CN 1,5-Naphthalenedisulfonic acid, 3,3'-[1,4-piperazinediylbis[3,1-propanediylimino(1,6-dihydro-6-oxo-1,3,5-triazine-4,2-diyl)imino(2-methyl-4,1-phenylene)azo]]bis- (9CI) (CA INDEX NAME)

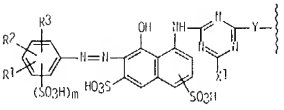
PAGE 1-A

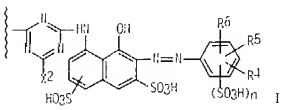


L5 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:731459 CAPLUS
DN 128:68511
TI Color image formation by ink-jet printing
IN Sano, Hideo; Takimoto, Hiroshi
PA Mitsubishi Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09286167	A2	19971104	JP 1996 338200	19961218
PRAI JP 1996-34795		19960222		

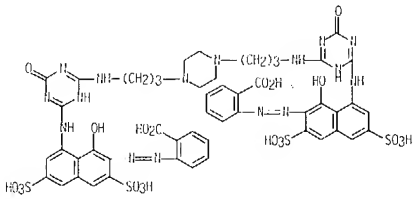
GI





AB In forming a color image by jetting aqueous magenta, yellow and cyan inks, the magenta ink contains ≥1 free acid type dye I (R1-6 = Cl, 9 alkyl, C1-9 alkoxy, halo, H, hydroxy, carbamoyl, sulfamoyl, amino, nitro, sulfonic acid ester, C1-9 alkylsulfonyl, carboxyl, carboxylic acid ester; m,n = 0-2; X1, X2 = OR7 (R7 = H, C1-8 alkyl, C2-3 alkenyl, aryl, aralkyl, cyclohexyl, N-containing heterocyclyl); Y = specified N-containing divalent group), and other color inks each contains a specified dye. The image formed by the invention method shows superior resistance to the environment changes, light, and water, and has sharp tone and good image d.
IT 179868-96-3
RL: TEM (Technical or engineered material use); USES (Uses)
(contained in magenta ink for color image formation)
RN 179868-96-3 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(1,6-dihydro-

L5 ANSWER 16 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
6-oxo-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na

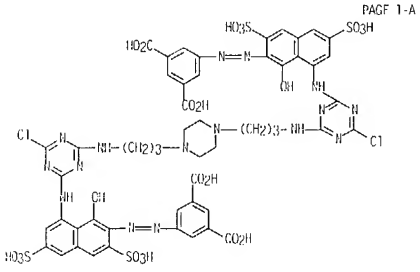
L5 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:638373 CAPLUS
DN 127:235674
TI Disazo dyes based on two linked 2-(7-(carboxyphenylazo)-8-hydroxy-3,6-disulfonaphthylamino)-4-substituted triazin-6-yl units and their use in inks
IN Gregory, Peter; Kenyon, Ronald Wynford; Wright, Paul
PA Zeneca Limited, UK
SO Brit. UK Pat. Appl., 16 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2308377	A1	19970625	GB 1996-24698	19961127
PRAI	GB 1995-25858		19951219		

OS MARPAT 127:235674
AB The disazo compds. A1N:NJXN(R1)JN(R2)XJN:NA2 (A1, A2 = optionally substituted carboxyphenyl; J = 8-hydroxy-3,6-disulfonaphthalene connected by 7- and 1-amino linkages; L = organic linking group; R1, R2 = H, optionally substituted hydrocarbyl; R1R2 together with L may form a 5- or 6-membered ring with N; X = 2,4-triazinediyl containing O, N, or S substituent) and their salts are suitable dyes for aqueous jet-printing inks for paper, textile, or projection slide substrates. Thus, the dichlorotriazinyl compound obtained by coupling diazotized 5-aminoisophthalic acid with dichlorotriazinyl H acid was condensed (2:1) with 1,4-bis(3-aminopropyl)piperazine (I) and the resulting bis(monochlorotriazinylazo) product was heated (1:2) with more I to provide a disazo dye which could be incorporated into an aqueous jet-printing ink and applied on plain paper, giving bright magenta shades having good water and light fastness.
IT **195245-46-6P**
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of disazo dyes for aqueous jet-printing inks)
RN 195245-46-6 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5,5'-[1,4-piperazinediylbis[3,1-propanediylimino(6-chloro-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, octaammonium salt (9CI) (CA INDEX NAME)

L5 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



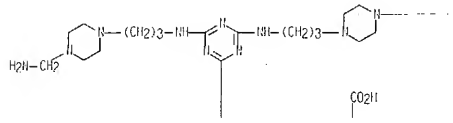
PAGE 2-A

● 8 NH3

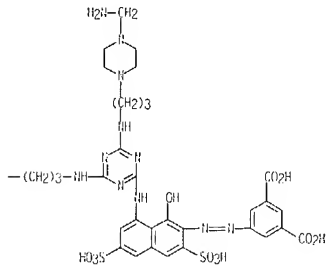
IT **195245-45-5P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(magenta dye; preparation of disazo dyes for aqueous jet-printing inks)
RN 195245-45-5 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5,5'-[1,4-piperazinediylbis[3,1-propanediylimino[6-[[3-[4-(aminomethyl)-1-piperazinyl]propyl]amino]-1,3,5-triazine-4,2-diyl]]imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis- (9CI) (CA INDEX NAME)

L5 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

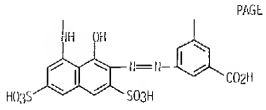
PAGE 1-A



PAGE 1-B



PAGE 2-A



L5 ANSWER 17 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

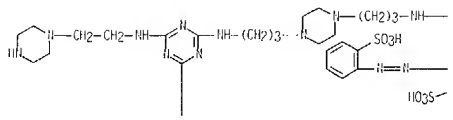
L5 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:636822 CAPLUS
DN 127:235673
TI Disazo dyes and their use in inks based on two linked 2-[7-(2-sulfophenylazo)-8-hydroxy-3,6-disulfonaphthylamino]-4-substituted-triazin-6-yl units
IN Kenyon, Ronald Wynford; Gregory, Peter; Wight, Paul
PA Zeneca Limited, UK
SO Brit. UK Pat. Appl., 17 pp.
CODEN: BAXXDU
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2308379	A1	19970625	GB 1996-24690	19961127
	GB 2308379	B2	20000329		
	US 5773593	A	19980630	US 1996-769701	19961218
	JP 09217016	A2	19970819	JP 1996-339537	19961219
PRAI	GB 1995 25882	A	19951219		

OS MARPAT 127:235673
AB The dyes A1N:NJXN(R1)LN(R2)XJN:NA2 (A1, A2 = optionally substituted 2-sulfophenyl; J = 8-hydroxy-3,6-disulfonaphthalene connected by 7- and 1-amino linkages; L = piperazinediyl-containing linking group; R1, R2 = H, optionally substituted hydrocarbyl; R1R2 together with L may form a 5- or 6-membered ring with N; X = 2,4-triazinediyl containing O, N, or S substituent) or their salts are suitable for aqueous jet-printing inks for paper, textile, or projection slide substrates. Thus, orthanilic acid→H acid was prepared and condensed with cyanuric acid to give a dichlorotriazinyl compound to which was added 1,4-bis(3-aminopropyl)piperazine. The resulting bis(monochlorotriazinylazo) product was condensed with 1-(2-aminoethyl)piperazine to provide a disazo dye which could be incorporated into an aqueous jet-printing ink and applied on plain paper, giving bright magenta shades having good water and light fastness.
IT **195379-30-7P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of disazo dyes for aqueous jet-printing inks)
RN 195379-30-7 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediylimino[6-[[2-(1-piperazinyl)ethyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-hydroxy-6-[(2-sulfophenyl)azo]- (9CI) (CA INDEX NAME)

L5 ANSWER 18 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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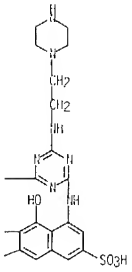

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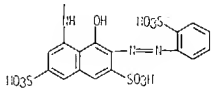
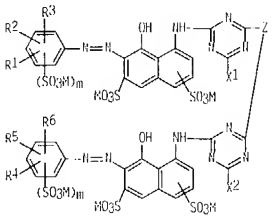


L5 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:494110 CAPLUS
DN 125:145333
TI Jet-printing inks containing triazine group-containing disazo acid dyes
IN Takimoto, Hiroshi; Sano, Hideo; Yamada, Masahiro
PA Mitsubishi Chemical Corporation, Japan
SO Eur. Pat. Appl., 23 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 717089	A1	19960619	EP 1995-119552	19951212
	EP 717089	B1	19990324		
	R: DE, GB				
	JP 08311375	A2	19961126	JP 1995-120060	19950518
	JP 3396998	B2	20030414		
	JP 08218021	A2	19960827	JP 1995-320290	19951208
	JP 3384218	B2	20030310		
	US 5609673	A	19970311	US 1995-571179	19951212
PRAI	JP 1994-307708	A	19941212		
	JP 1995-120060	A	19950518		

OS MARPAT 125:145333
GI



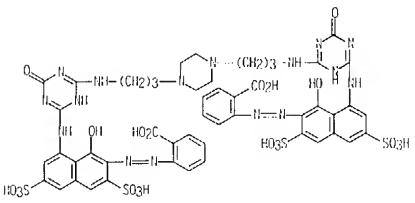
I

AB Storage-stable magenta jet-printing inks that provide images with high d. and good light and water resistance and color tone contain dyes I [R1-6 (substituted) C1-9 alkyl, C1-9 alkoxy, halo, H, OH, (substituted) carbamoyl, (substituted) sulfamoyl, (substituted) amino, NO2, sulfonic ester group, CO2H, or carboxylate ester; X1, X2 = OR7, R7 = H,

L5 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(substituted) C1-8 alkyl, (substituted) C2-3 alkenyl, (substituted) aralkyl, (substituted) cyclohexyl, or (substituted) nitrogenous heterocyclic group, Z = nitrogenous heterocyclic group-contg. divalent group, M = cation].

IT 179868-96-3 179868-98-5 179869-01-3
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(jet printing inks containing triazine group-containing disazo acid dyes)

RN 179868-96-3 CAPLUS
CN Benzoic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(1,6-dihydro-6-oxo-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, tetrasodium salt (9CI) (CA INDEX NAME)



● 4 Na

RN 179868-98-5 CAPLUS
CN 1,4-Benzenedicarboxylic acid, 2,2'-[1,4-piperazinediylbis[3,1-propanediylimino(6-hydroxy-1,3,5-triazine-4,2-diyl)imino(8-hydroxy-3,6-disulfo-1,7-naphthalenediyl)azo]]bis-, tetraammonium salt (9CI) (CA INDEX NAME)

L5 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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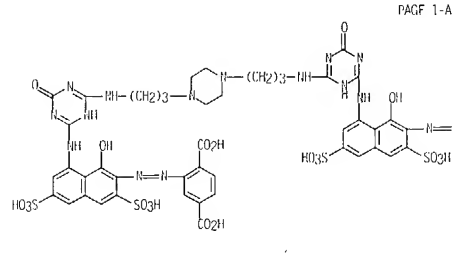

● 4 NH_3

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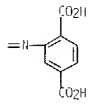

RN 179869-01-3 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-piperazinediylbis[3,1-propanediylimino[6-(octyloxy)-1,3,5-triazine-4,2-diyl]imino]]bis[5-[(5-chloro-4-methyl-2-sulfophenyl)azo]-5-hydroxy-, compd. with methanamine (1:6) (9CI) (CA INDEX NAME)

CM 1

CRN 179869-00-2
CMF C66 H82 Cl2 N16 O22 S6

L5 ANSWER 19 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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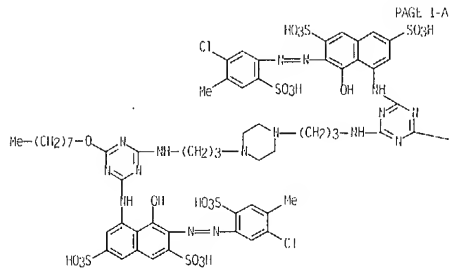

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~O-(CH2)7-Me

CM 2

CRN 74-89-5
CMF C H5 N

H3C-NH2

L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:171898 CAPLUS
DN 124:204938
TI Anionic acid azo direct dyes, their preparation, their mixtures, and their use
IN Lauk, Urs
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 71 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 693538	A2	19960124	EP 1995-810387	19950612
	EP 693538	A3	19960605		
	EP 693538	B1	20010822		
	R: BE, CH, DE, ES, FR, GB, GR, IT, LI, PT				
	US 5631352	A	19970520	US 1995 460174	19950602
	ES 2161847	T3	20011216	ES 1995-810387	19950612
	PT 693538	T	20020130	PT 1995 810387	19950612
	JP 08003469	A2	19960109	JP 1995-146285	19950613
	CN 1133323	A	19961016	CN 1995 107363	19950619
	CN 1066178	B	20010523		
	BR 9502861	A	19960604	BR 1995 2861	19950620
	GR 3036651	T3	20011231	GR 2001-401509	20010918
PRAI	CH 1994-1952	A	19940620		

OS MARPAT 124:204938
AB Mixts. of ≥1 azo dye containing 1 or 2 aminotriazine groups with ≥ 1 azo dye containing 2 aminotriazine groups are direct dyes for cellulosics . They are high-temperature-stable and are especially suited for 1-bath dyeing of polyester/cotton with incorporation of a polyester disperse dye under polyester dyeing conditions. Thus, 1 mol cyanuric chloride was condensed with 2 mol 7-amino 4 hydroxy 3 (4 methoxy-2-sulfophenylazo)-2-naphthalenesulfonic acid and then with 1 mol 1,3-diaminopropane to provide an aminotriazine disazo dye which dyed cotton in fast red shades. The dye could also be combined with another azo dye for application.
IT **174571-94-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(anionic acid azo direct dye mixts. for dyeing of cellulosics)
RN 174571-94-9 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 4-[[4-[[4-[[4-[(2-aminoethyl)amino]-1-piperazinyl]-6-[[5-hydroxy-7-sulfo-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-5-methoxy-2-methylphenyl]azo]-5-hydroxy-, mixt. with 5-hydroxy-4-[[4-[[4-[[4-[2-[[4-[[4-[(8-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-2-methoxy-5-methylphenyl]amino]-6-[[5-hydroxy-7-sulfo-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-6-[[5-hydroxy-7-sulfo-6-[[2-sulfo-4-[(4-sulfophenyl)azo]phenyl]azo]-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]amino]-5-methoxy-2-methylphenyl]azo]-2,7-naphthalenedisulfonic acid (9CI) (CA INDEX NAME)

CM 1

CRN 174571-93-8
CMF C92 H77 N25 O36 S10

L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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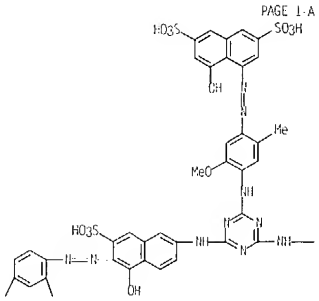

L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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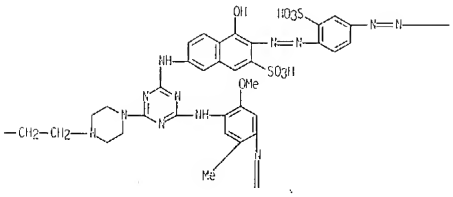

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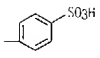

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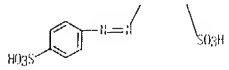

L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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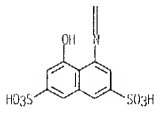

CM 2

CRN 174571-92-7
CMF C49 H47 N15 O18 S5

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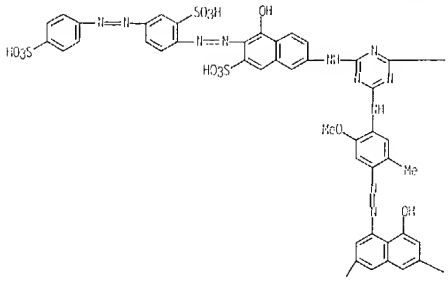
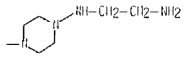


L5 ANSWER 20 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



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L5 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2001 ACS on STN

AN 1995:785207 CAPLUS
DN 123:343739
TI Water based recording liquids containing bistriazine-containing tetraazo dyes
IN Sano, Hideo; Sato, Nobuyoshi; Murata, Jukichi
PA Mitsubishi Kagaku KK, Japan; Mitsubishi Chemical Corp.
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07150098	A2	19950613	JP 1993-301926	19931201
	JP 3511652	B2	20040329		
PRAI	JP 1993-301926		19931201		

OS MARPAT 123:343739
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

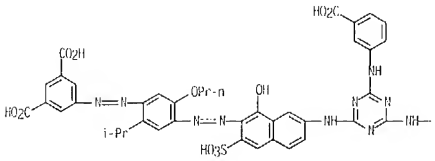
AB Title liqs., useful for ink-jet printer, etc., contain water-based mediums and ≥1 dyes selected from tetraazo compds. I as free acids [A, D = (substituted) Ph, naphthyl; B, C = (substituted) phenylene, naphthylene; R1-4 = H, (substituted) C1-18 alkyl, (substituted) C1-18 alkenyl, (substituted) aryl, (substituted) aralkyl, (substituted) cycloalkyl, (substituted) heterocycle; Y = divalent linking group; m, n = 0, 1]. Thus, diethylene glycol 10, iso-Pr alc. 3, tetrazo dye II 3, and balance water were mixed to give title liquid providing clear bluish black dots in ink-jet printing.

IT **170694-21-0**
RL: TEM (Technical or engineered material use); USES (Uses)
(dyes; inks containing water-based mediums and bistriazine containing tetraazo dyes)

RN 170694-21-0 CAPLUS
CN 1,3-Benzenedicarboxylic acid, 5,5'-[1,4-piperazinediylbis[3,1-propanediylimino[6-[(3-carboxyphenyl)amino]-1,3,5-triazine-4,2-diyl]imino(1-hydroxy-3-sulfo-7,2-naphthalenediyl)azo[2-(1-methylethyl)-5-propoxy-4,1-phenylene]azo]]bis- (9CI) (CA INDEX NAME)

L5 ANSWER 21 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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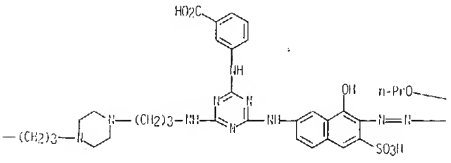

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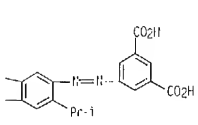


L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2001 ACS on STN

AN 1995:526613 CAPLUS
DN 122:290896
TI Piperidine-triazine compounds as antioxidants
IN Borzatta, Valerio; Vignali, Graziano; Guizzardi, Fabrizio
PA Ciba-Geigy A. G., Switz.
SO Ger. Offen., 46 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4411559	A1	19941006	DE 1994-4411559	19940402
	US 5489683	A	19960206	US 1994-219049	19940328
	GB 2276878	A1	19941012	GB 1994-6236	19940329
	GB 2276878	B2	19970312		
	ES 2097081	A1	19970316	ES 1994-692	19940330
	ES 2097081	B1	19971201		
	CA 2120372	AA	19941006	CA 1994-2120372	19940331
	FR 2703684	A1	19941014	FR 1994-3809	19940331
	FR 2703684	B1	19950804		
	NL 9400515	A	19941101	NL 1994-515	19940331
	BE 1006991	A4	19950214	BE 1994-340	19940331
	JP 06340660	A2	19941213	JP 1994-90570	19940405
	US 5696261	A	19971209	US 1995-555353	19951108
PRAI	IT 1993-MI661	A	19930405		
	US 1994-219049	A3	19940328		

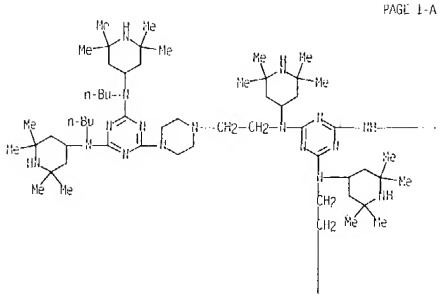
OS MARPAT 122:290896
AB Piperidine- and triazine-containing oligomeric compds. were disclosed as antioxidants (light stabilizers) for polymeric materials such as polyolefins (polyethylenes, polypropylenese).

IT **162782-56-1P 162782-57-2P 162782-58-3P**
162782-61-8P
RL: MOA (Modifier or additive use); POF (Polymer in formulation); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of piperidine- and triazine-containing oligomeric compds. antioxidants)

RN 162782-56-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N''' 1,6-hexanediylbis[N',N''-bis[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl] N',N''-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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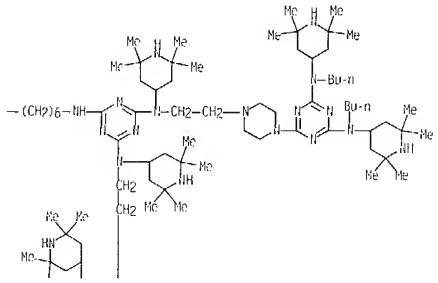
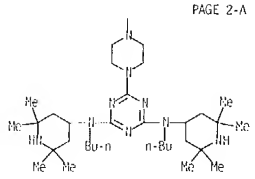


L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



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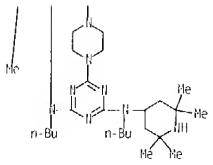
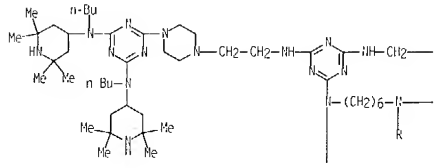


RN 162782-57-2 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N''' 1,6-hexanediylbis[N',N'' bis[2-[[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1 piperazinyl]ethyl]-N-(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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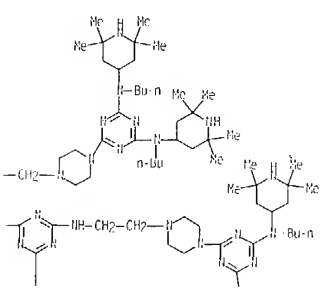
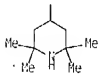
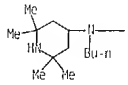


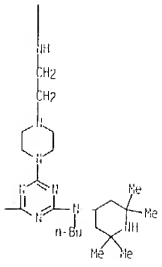
L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

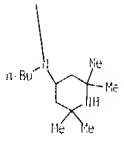
PAGE 2-A





PAGE 2-B

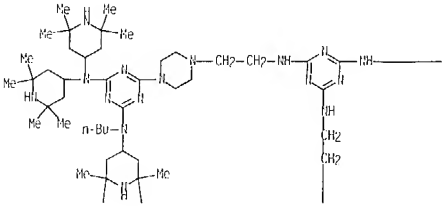




PAGE 3-A

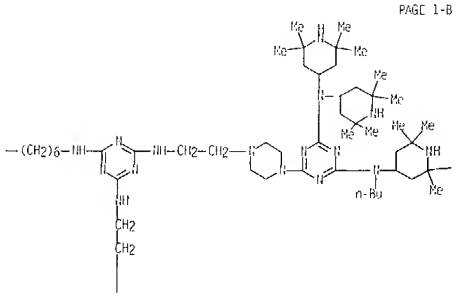
L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RN 162782-58-3 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-1,6-hexanediylbis[N',N''-bis[2-[[4-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl] 1 piperazinyl]ethyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B



PAGE 1-C

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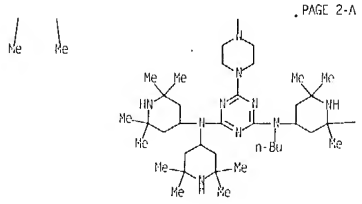
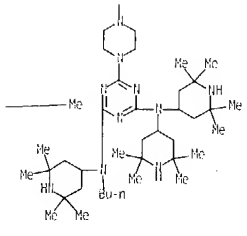
L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



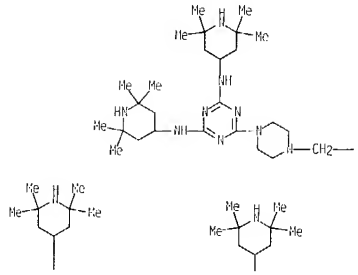
PAGE 2-B



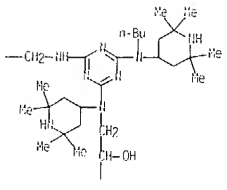
RN 162782-61-8 CAPLUS
CN 1,3,5-Triazine-2,4,6(1H,3H,5H)-trione, 1,3,5-tris[3-[[4-[[2-[[4,6-bis[(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]amino]-6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl](2,2,6,6-tetramethyl-4-piperidinyl)amino]-2-hydroxypropyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

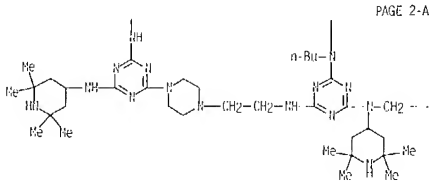


PAGE 1-B

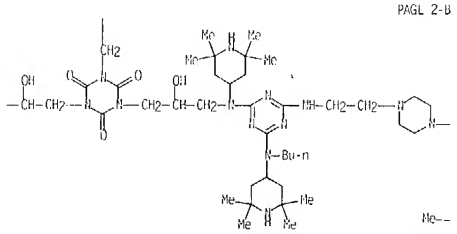


L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

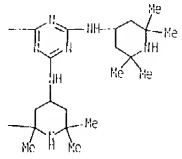


PAGL 2-B



L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-C



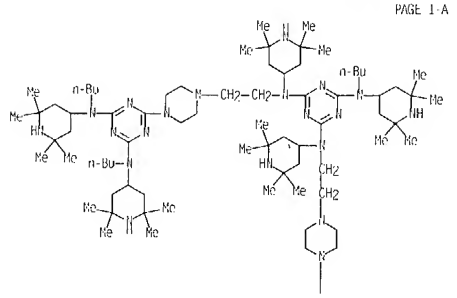
IT 162782-53-8P 162782-66-3P 162782-68-5P
162782-72-1P
RL: MOA (Modifier or additive use); POF (Polymer in formulation); PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of piperidine- and triazine-containing oligomeric compds. antioxidants)

RN 162782-53-8 CAPLUS

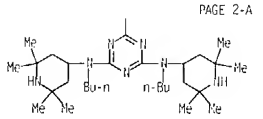
CN 1,3,5-Triazine-2,4,6-triamine, N,N'-bis[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N''-butyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

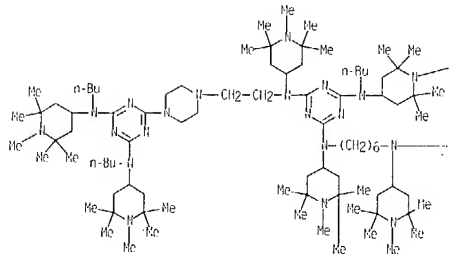


RN 162782-66-3 CAPLUS

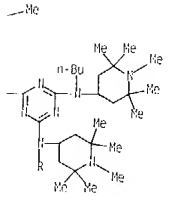
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-1,6-hexanediylbis[N'-[2-[4-[4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N''-butyl-N,N',N''-tris(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

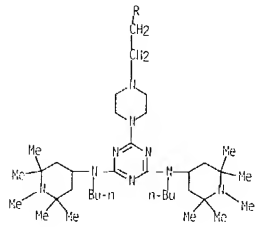


PAGE 1-B



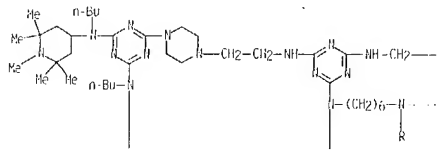
L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



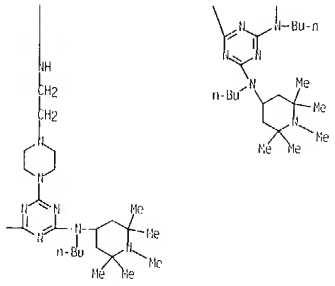
RN 162782-68-5 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-1,6-hexanediylbis[N',N''-bis[2-[4-[4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N (1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

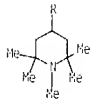


L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-B



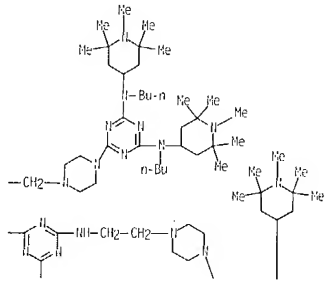
PAGE 3-A



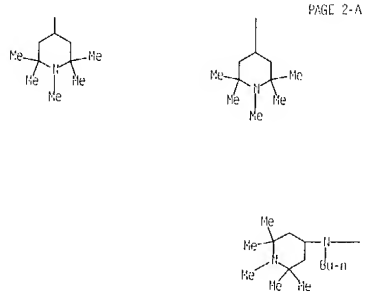
RN 162782-72-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-1,6-hexanediylbis[N'-[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N''-butyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

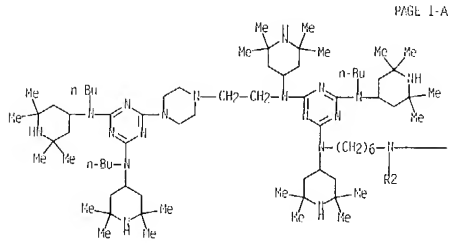


PAGE 2-A

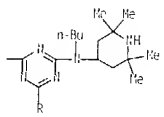


L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A

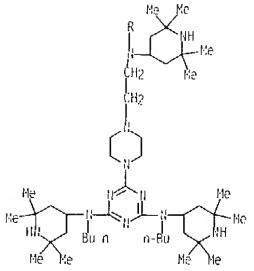


PAGE 1-B



L5 ANSWER 22 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



PAGE 3-A

L5 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:408523 CAPLUS

DN 122:160691

TI Preparation of piperidine and triazine containing compounds as light, heat and oxidation stabilizers for organic materials.

IN Vignali, Graziano; Guizzardi, Fabrizio; Zagnoni, Graziano

PA Ciba-Geigy S.p.A., Switz.

SO Eur. Pat. Appl., 35 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 627428	A1	19941207	EP 1994-810300	19940525
	R: BE, DE, ES, FR, GB, IT, NL				
	US 5449776	A	19950912	US 1994-249004	19940525
	CA 2124919	AA	19941204	CA 1994-2124919	19940601
	JP 07002842	A2	19950106	JP 1994-142392	19940601
	BR 9402143	A	19950307	BR 1994-2143	19940601
PRAI	IT 1993-MI1164	A	19930603		

OS MARPAT 122:160691

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. [I; R1 = H, alkyl, O, OH, CH2CN, alkoxy, cycloalkoxy, alkenyl, (substituted) phenylalkyl, aliphatic acyl; A = O, (alkyl)imino; X = C1-10 alkylene; R3 = H, alkyl, (substituted) cycloalkyl, phenylalkyl, etc.; R4 OI, RRR9N, R10O, etc.; R8, R9 = R3; R10 = R3, alkenyl, (substituted) Ph; n = 2-4; R5 = NR11X1NR13, NR18X2N(X3NR23)nX4NR21, NR27X5NX6NX7NR31, etc.; R11, R13, R18, R21, R23, R27, R31 R3, etc.; X1 = alkylene, cycloalkylene, cycloalkylenealkylene, phenylenedialkylene, etc.; X2-X7 = alkylene; n = 0,1], were prepared Thus, N-(2,2,6,6-tetramethyl-4-piperidinyl)glycine 2,2,6,6-tetramethyl-4-piperidyl ester was added slowly to cyanuric chloride in mesitylene at 0°; the mixture was stirred 2 h at ambient temperature, treated with K2CO3, and heated 4 h at 80°. The mixture was cooled to ambient and treated with N,N' bis(2,2,6,6-tetramethyl-4-piperidyl)-1,6-hexanediamine followed by 2 h reflux, addition of K2CO3, and a further 10 h reflux to give title compound II. Polypropylene sheets containing 1 g II/1000 g polypropylene showed a time to fracture of 1470 h at 180°, vs. 510 h in the absence of II.

IT **161460-49-7P**

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

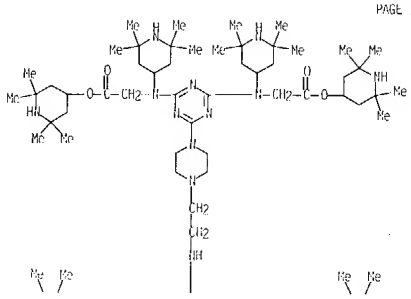
L5 ANSWER 23 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

(prepn. of piperidine and triazine contg. compds. as light, heat and oxidn. stabilizers for org. materials)

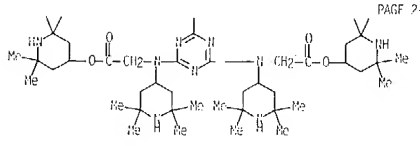
RN 161460-49-7 CAPLUS

CN Glycine, N,N'-[6-[4-[2-[[4,6-bis[[2-oxo-2-[(2,2,6,6-tetramethyl-4-piperidinyl)oxy]ethyl](2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazine-2,4-diyl]bis[N-(2,2,6,6-tetramethyl-4-piperidinyl)-, bis(2,2,6,6-tetramethyl-4-piperidinyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L5 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1993:497119 CAPLUS

DN 119:97119

TI Radiation-resistant polyolefin compositions

IN Nakahara, Yutaka; Haruna, Tooru; Yoshikawa, Kazumi; Takeuchi, Takashi

PA Asahi Denka Kogyo KK, Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

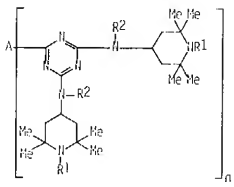
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 05043745	A2	19930223	JP 1991-202025	19910812
PRAI	JP 1991-202025		19910812		

GI



AB Title compns. contain hindered amines I (A = 2-4-valent organic amine residue; A is bonded to triazine ring via N and may contain N not being bonded to triazine ring; n = 2-4; R1 H, C1-8 alkyl, C1-8 acyl, O free radial; R2 H, C1-18 alkyl) Thus, a composition containing Profax 6501 100, Ca stearate 0.05, tris(2,4-di-tert-butylphenyl) phosphite 0.2, and I (A NHC6H12NH, R1 H, R2 C4H9, n = 2) 0.2 part was pelletized and injection molded to give a test piece showing good retentions of yield strength, breaking strength, and elongation and discoloration and heat resistance after irradiation with γ-ray.

IT **130997-29-4**

RL: USES (Uses)

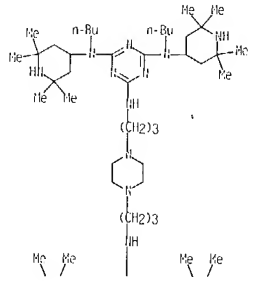
(radiation stabilizers, for polyolefins)

RN 130997-29-4 CAPLUS

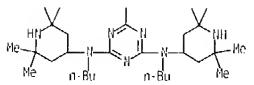
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl-N',N''-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 24 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



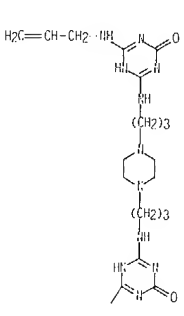
L5 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
aralkyl, etc.; R1, R2 = H, C1-18 alkyl, C2-8 alkenyl, C6-16 cycloalkyl, etc.; NR1R2 = heterocyclyl which may contain another heteroatom; a = 0, 1; b = 0-5; R3 = Q1; Z = (substituted) 1,4-piperazinylene, R9NCnH2nNR9, etc. when b = 0; other groups defined when b = 1-5; n = 2-11; R9 = H, C1-4 alkyl, C2-6 alkenyl, etc.] were prepd. as fireproofing agents for self-extinguishing polymeric compns. Thus, ethylenediamine was added to a soln. of cyanuric acid chloride followed by addn. of NaHCO3 and 2-methyoxyethylamine. NaOH was added over 2 h and the mixt. was stirred 1 h. HCl was then added to the mixt. which was refluxed 6 h to give title compd. II. A polypropylene polymer compn. contg. 4.2% II gave oxygen index of 32.0 (ASTM D-2863-77) and UL 94 std. rating of V0 in the vertical burning test.

IT **142279-14-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as flame proofing agent for self-extinguishing polymers)

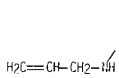
RN 142279-14-9 CAPLUS

CN 1,3,5-Triazin-2(1H)-one, 4,4'-[1,4-piperazinediylbis(3,1-propanediylimino)]bis[6-(2-propenylamino)- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



L5 ANSWER 25 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:490328 CAPLUS

DN 117:90328

TI Preparation of diamino-s-triazinone derivatives for self-extinguishing polymeric compositions

IN Cipolli, Roberto; Nucida, Gilberto; Masarati, Enrico; Oriani, Roberto; Pirozzi, Mario

PA Ministero dell'Universita' e della Ricerca Scientifica e Tecnologica, Italy

SO Eur. Pat. Appl., 39 pp.
CODEN: EPXXDW

DT Patent

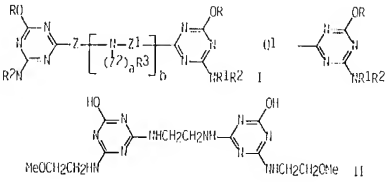
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 475367	A1	19920318	EP 1991-115308	19910910
	EP 475367	B1	19960320		
	R: AT, BE, CH, DE, DK, ES, FR, GB, LI, NL, SE				
	US 5310907	A	19940510	US 1991-756921	19910909
	CA 2051080	AA	19920317	CA 1991-2051080	19910910
	AT 139696	E	19960415	AT 1991-115308	19910910
	ES 2089740	T3	19960516	ES 1991-115308	19910910
	AU 9183836	A1	19920319	AU 1991-83836	19910911
	AU 642528	B2	19931021		
	JP 06087840	A2	19940329	JP 1991-232040	19910911
	US 5314938	A	19940524	US 1993-15856	19930210
PRAI	IT 1990 21420		19900911		
	US 1991-756921		19910909		

OS MARPAT 117:90328

GI



AB Title compds. I [R = H, C2-6 alkenyl, C6-12 cycloalkyl, C6-12 aryl, C7-12

L5 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:215685 CAPLUS

DN 116:215685

TI Weather resistant polyolefin-olefin rubber blends

IN Nakahara, Yutaka; Haruna, Toru; Sugibuchi, Kazuo

PA Asahi Denka Kogyo K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF

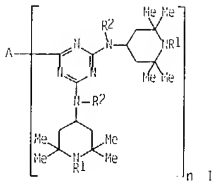
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 03275746	A2	19911206	JP 1990-74036	19900323
PRAI	JP 1990-74036		19900323		

GI



AB The title blends contain 0.001-5 pb hindered amine I (A = organic group; R1 = H, alkyl, acyl, O.; R2 = H, alkyl; n = 2-4), 50-95 parts crystalline polyolefin, and 50-5 parts C2H4-α-olefin rubbers. Thus, a blend of 7:93 C2H4-C3H6 copolymer 70, 75:25 EPR 30, additives 0.25, and I (A = NHC6H12NH, R1 = H, R2 = Bu, n = 2) (II) 0.3 part had time to cracking in a Weatherometer at 83° 1120 h and yellowness index 6.3 and 9.5 after 0 and 480 h weathering, resp.; vs. 660, 10.4, and 16.9, resp., with bis(2,2,6,6-tetramethyl-4-piperidinyl) sebacate in place of II.

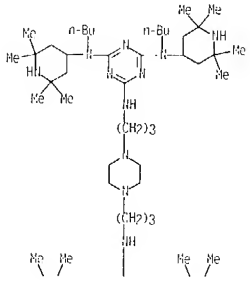
IT **130997-29-4**
RL: USES (Uses)
(light stabilizers, for polyolefin blends with olefin rubbers)

RN 130997-29-4 CAPLUS

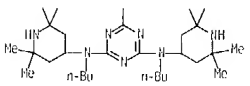
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl-N',N'' bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 26 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



L5 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1992:215641 CAPLUS

DN 116:215641

TI Salts of triazine derivatives with oxygenated acids of phosphorus and their use in self-extinguishing polymeric compositions

IN Cipolli, Roberto; Nasarati, Enrico; Nucida, Gilberto; Oriani, Roberto; Pirozzi, Mario

PA Ministero dell' Universita' e della Ricerca Scientifica e Tecnologica, Italy

SO Eur. Pat. Appl., 53 pp.
CODEN: EPXXDW

DT Patent

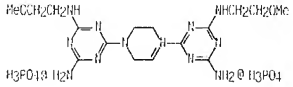
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 466137	A2	19920115	EP 1991-111506	19910710
	EP 466137	A3	19920401		
	EP 466137	B1	19960417		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE				
	US 5359064	A	19941025	US 1991-727710	19910710
	AT 136891	E	19960515	AT 1991-111506	19910710
	AU 9180367	A1	19920116	AU 1991-80367	19910711
	AU 636992	B2	19930513		
	CA 2046782	AA	19930117	CA 1991-2046782	19910711
	JP 06340770	A2	19941213	JP 1991-197176	19910711
	US 5403877	A	19950404	US 1993-108033	19930818
PRAI	IT 1990-20919		19900711		
	US 1991-727710		19910710		

OS MARPAT 116:215641

GI



AB Salts of bis(diaminotriazine) derivs. of O containing P acids are intumescent flame retardants of the char-forming type and are used without other additives to prepare self extinguishing polymer or elastomer compns. Thus, a composition containing isotactic polypropylene 72, I (prepared in 4 steps from cyanuric chloride 13.5), Exolit 422 13.5, and antioxidant 1 part was molded to 3-mm specimens at 40 kg/cm2 to show limiting O index (ASTM D2863) 33.2 and UL 94 (3 mm) V0.

L5 ANSWER 27 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

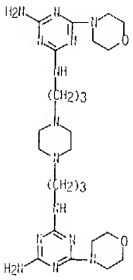
IT **140639-27-6P**
RL: PREP (Preparation)
(preparation of, as intumescent fireproofing agents for polymers and rubbers)

RN 140639-27-6 CAPLUS

CN 1,3,5-Triazine-2,4-diamine, N,N''-(1,4-piperazinediyldi-3,1-propanediyl)bis[6-(4-morpholinyl)-, phosphate (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 135783-75-4
CMF C24 H42 N14 O2



CM 2

CRN 7664-38-2
CMF H3 O4 P

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:559184 CAPLUS

DN 115:159184

TI Preparation of piperidine-triazine compounds as stabilizers for organic materials

IN Borzatta, Valerio

PA Ciba Geigy A.-G., Switz.; Ciba-Geigy S.p.A.

SO Eur. Pat. Appl., 27 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 435828	A1	19910703	EP 1990-811007	19901219
	EP 435828	B1	19950125		
	R: BE, DE, FR, GB, IT, NL				
	US 5102928	A	19920407	US 1990-630100	19901219
	CA 2033128	AA	19910629	CA 1990-2033128	19901224
	JP 04288074	A2	19921013	JP 1990-417092	19901228
PRAI	IT 1989-22866		19891228		

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. [I, R1, R6 = isooctylamino, N-(2,2,6,6-tetramethyl-4-piperidinyl)butylamino, etc.; R2, R5 = 2,2,6,6-tetramethyl-4-piperidinyl, etc., R3, R4 = alkylene, etc., R7 = O, etc.; X = a group defined for R1; Y = O1, etc.; m = 0, 1; n = 0-1; p = 1-50], useful as light and heat stabilizers, and antioxidants for organic materials, are prepared. Morpholine was added to a soln of cyanuric chloride in xylene with stirring at 10° and 25°, aqueous NaOH was added with stirring, aqueous phase was separated, N,N'-bis[3-(2,2,6,6-tetramethyl-4-piperidylamino)propyl]piperazine were added to a xylene solution, heated at 80°, NaOH was added, and the mixture refluxed to give II. Also prepared were 9 addnl. I, which were each incorporated into a polymer fiber to show excellent light stability at 63°.

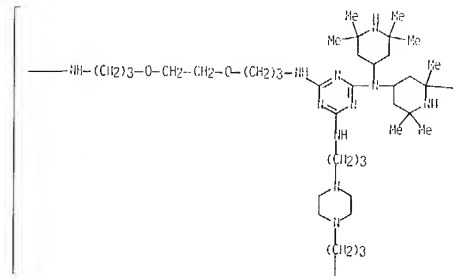
IT **136161-86-9P 136161-87-0P 136161-88-1P**
136214-08-9P 136292-58-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as monomer for light and heat stabilizer)

RN 136161-86-9 CAPLUS

CN Poly[[6-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,3-propanediyl-1,4-piperazinediyl-1,3-propanediylimino[6-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,3-propanediyloxy-1,2-ethanediyloxy-1,3-propanediylimino] (9CI) (CA INDEX NAME)

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

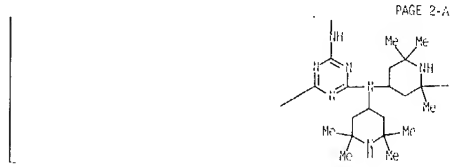
PAGE 1-A



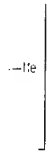
PAGE 1-B

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



PAGE 2-B

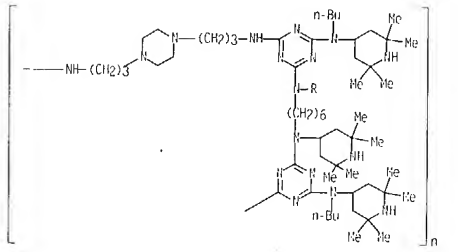


RN 136161-87-0 CAPLUS

CN Poly[[6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino][6-[butyl(2,2,6,6-tetramethyl 4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,3-propanediyl-1,4-piperazinediyl-1,3-propanediylimino] (9Cl) (CA INDEX NAME)

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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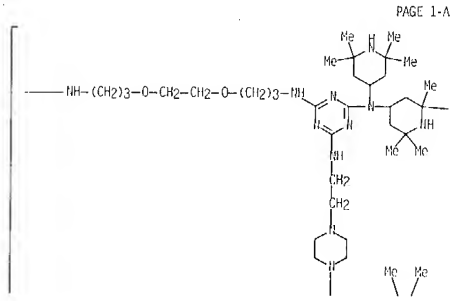
RN 136161-89-1 CAPLUS

CN Poly[[6-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl]-1,4-piperazinediyl-1,2-ethanediyliminoC6-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,3-propanediyloxy-1,2-ethanediyloxy-1,3-propanediylimino] (9Ci) (CA INDEX NAME)

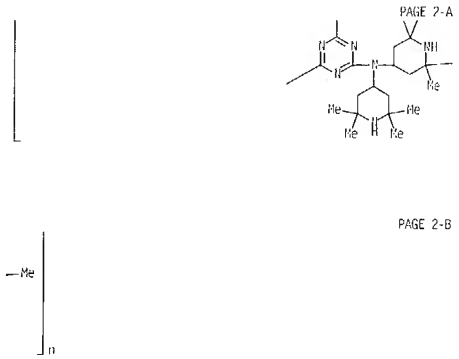
L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



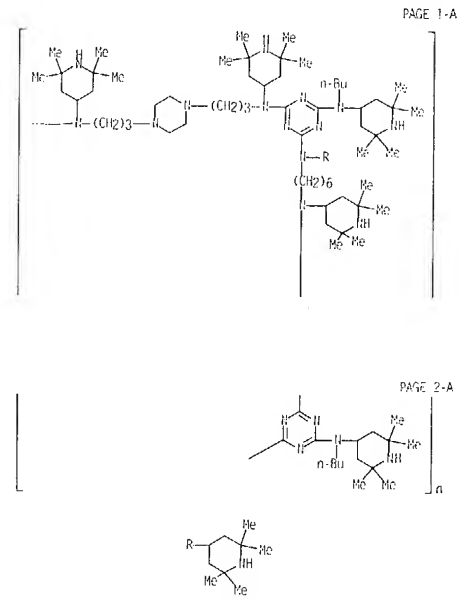
PAGE 1-B

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



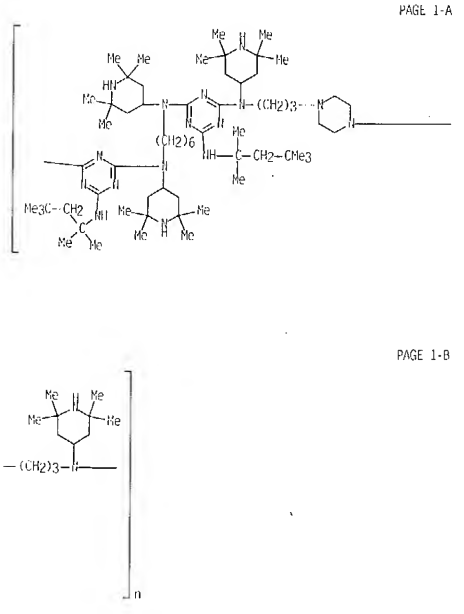
RN 136214-08-9 CAPLUS
CN Poly[[6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino][6-[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,3-propanediyl-1,4-piperazinediyl-1,3-propanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 136292-58-5 CAPLUS
CN Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino][6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino] 1,3-propanediyl-1,4-piperazinediyl-1,3-propanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] (9CI) (CA INDEX NAME)

L5 ANSWER 28 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

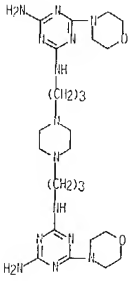


L5 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2001 ACS on STN
AN 1991:515737 CAPLUS
DN 115:115737
TI 2,4,6-Triamino-1,3,5-triazine derivative-phosphate and/or phosphonate mixtures for self-extinguish polymer compositions
IN Cipolli, Roberto; Nasarati, Enrico; Nucida, Gilberto; Pirozzi, Mario; Oriani, Roberto
PA Ministero dell' Universita e della Ricerca Scientifica e Tecnologica, Italy
SO Eur. Pat. Appl., 40 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 415371	A2	19910306	EP 1990-116512	19900828
	EP 415371	A3	19920429		
	R: AT, BE, CH, DE, DK, ES, FR, GB, LI, NL, SE				
	AU 9061365	A1	19910228	AU 1990-61365	19900827
	AU 627615	B2	19920827		
	CA 2024077	AA	19910301	CA 1990-2024077	19900827
	JP 03149262	A2	19910625	JP 1990-226447	19900828
	JP 2926642	B2	19990728		
	KR 130486	B1	19980407	KR 1990-13302	19900828
	US 5223560	A	19930629	US 1992-917533	19920721
PRAI	IT 1989 21562	A	19890828		
	IT 1990-19839	A	19900327		
	US 1990-572601	B1	19900827		

AB Title compns. comprise thermoplastic polymer 45-89, ammonium and/or amine phosphate(s) and/or phosphonates 8-30 and 2,4,6-triamino-1,3,5-triazine diamino deriv(s). 3-25%. A triazine compound (I), prepared by charging aqueous NH3 into reaction product of cyanuric acid chloride and cyclohexylamine and reacting with piperazine, had m.p. 265-268°. A composition, prepared from a mixture of I 8.3, isotactic polypropylene (melt flow index 12) 70, 2:1 dilauryl thiopropionate-pentaerythritol tetra[3 (3,5 di-tert-butyl-4-hydroxyphenyl)propionate mixture 1, and ammonium polyphosphonic acid 20.7%, had limiting O index 37.6 and UL 94 flame test rating V-0.
IT 135783-75-4
RL: USES (Uses)
(thermoplastics containing phosphates and/or phosphonates and, fire-resistant and intumescent)
RN 135783-75-4 CAPLUS
CN 1,3,5-Triazine-2,4-diamine, N,N''-(1,4-piperazinediyldi-3,1-propanediyl)bis[6-(4-morpholinyl)- (9CI) (CA INDEX NAME)

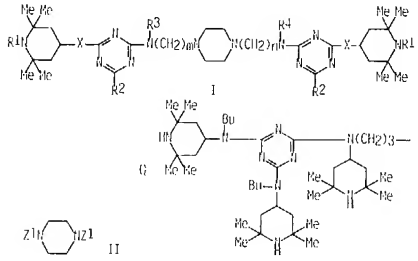
L5 ANSWER 29 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:122419 CAPLUS
DN 114:122419
TI Preparation of triazine derivatives as stabilizers for polymers
IN Cantatore, Giuseppe; Borzatta, Valerio
PA Ciba-Geigy A.-G., Switz.; Ciba-Geigy S.p.A.
SO Eur. Pat. Appl., 18 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 376886	A1	19900704	EP 1989-810957	19891214
	EP 376886	B1	19930728		
	R: BE, DE, FR, GB, IT, NL				
	CA 2006401	AA	19900623	CA 1989-2006401	19891221
	US 5039722	A	19910813	US 1989-454083	19891221
	BR 8906599	A	19900911	BR 1989-6599	19891222
	JP 02221273	A2	19900904	JP 1989-334698	19891223
PRAI	IT 1988-23071		19881223		

OS MARPAT 114:122419
GI



AB The title compds. I [R1 = H, C1-8 alkyl, OH, NO, etc.; R2 = OR5, SR5, etc.; R5 = C1-18 alkyl, C3-18 alkyl interrupted by O, etc.; R3, R4 = H,

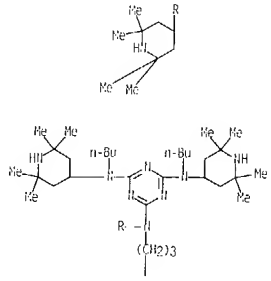
L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

C1-18 alkyl, etc.; m, n = 2-6; X = O, (substituted) NH] were prepd. A mixt. of 2-chloro-4,6-bis[(N-2,2,6,6-tetramethyl-4 piperidyl)butylamino]-1,3,5-triazine, NaOH, and N,N'-bis-[3-(2,2,6,6-tetramethyl-4-piperidylamino)propyl]piperazine in mesitylene was refluxed for 20 h with azeotropic removal of H2O to give piperazine deriv. II (Z1 = O). For polypropylene plaques contg. 0.1% II, the time to fracture was 1530 h, vs. 250 h in the absence of stabilizer.

IT **130997-27-2P 130997-28-3P 130997-29-4P**
130997-30-7P 130997-31-8P 130997-32-9P
130997-33-0P 130997-34-1P 131049-35-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as stabilizer for polymer)

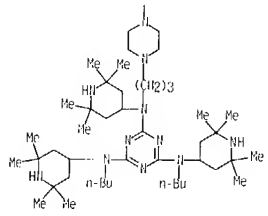
RN 130997-27-2 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



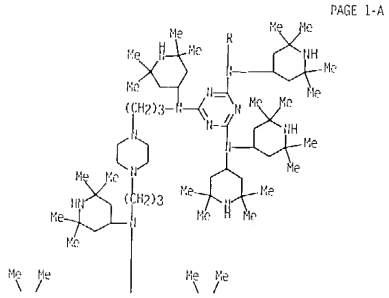
L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



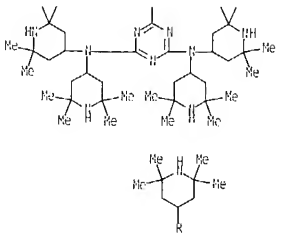
RN 130997-28-3 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N,N',N',N'',N''-pentakis(2.2.6.6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



RN 130997-29-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl-N',N''-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

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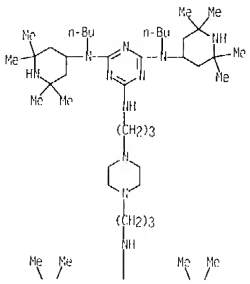
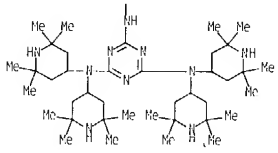


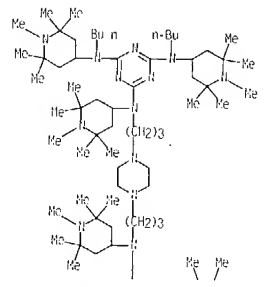
L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A

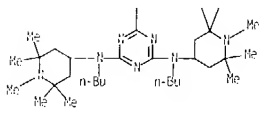


RN 130997-31-8 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl-N,N',N''-tris(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

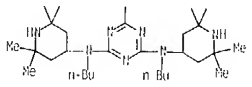


PAGE 2-A



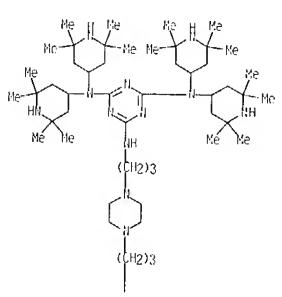
L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



RN 130997-30-7 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N',N'',N''-tetrakis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

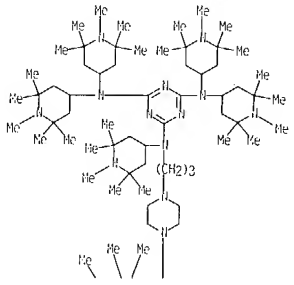
PAGE 1-A



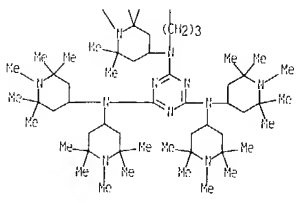
L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

RN 130997-32-9 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N,N',N',N'',N'' pentakis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



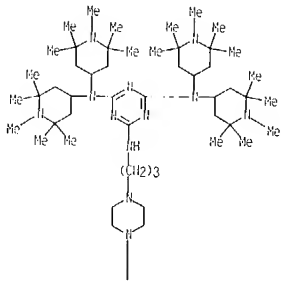
PAGE 2-A



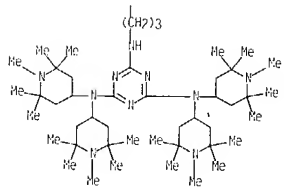
RN 130997-33-0 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N',N'',N''-tetrakis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



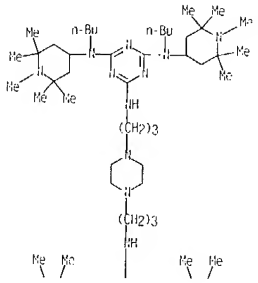
PAGE 2-A



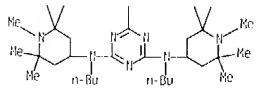
RN 130997-34-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N'''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-dibutyl N',N''-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



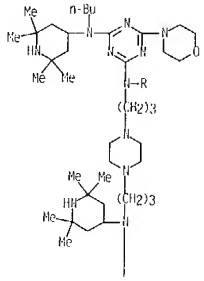
PAGE 2-A



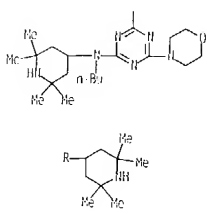
RN 131019-35-9 CAPLUS
CN 1,3,5-Triazine-2,4-diamine, N,N''-(1,4-piperazinediyldi-3,1-propanediyl)bis[N'-butyl-6-(4-morpholinyl)-N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 30 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A

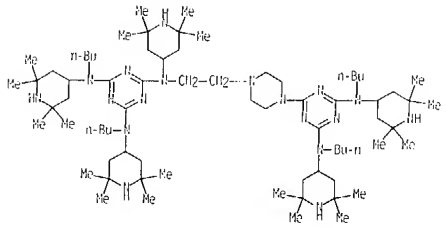


L5 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:218135 CAPLUS
DN 112:218135
TI Addition of hindered piperidine stabilizers during polymerization
IN Muelhaupt, Rolf; Rody, Jean; Slongo, Mario
PA Ciba-Geigy A.-G., Switz.
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 350444	A1	19900110	EP 1989-810480	19890621
	R: AT, BE, DE, ES, FR, GB, IT, NL, SE				
	AU 8936690	A1	19900614	AU 1989-36690	19890621
	AU 621630	B2	19920319		
	DD 297832	A5	19920123	DD 1989-330071	19890628
	ZA 8904936	A	19900328	ZA 1989-4936	19890629
	BR 8903236	A	19900213	BR 1989-3236	19890630
	CN 1039605	A	19900214	CN 1989-104462	19890630
	JP 02052807	A2	19900222	JP 1989-169746	19890630
	US 5244948	A	19930914	US 1992-881322	19920507
PRAI	CH 1988-2502		19880630		
	US 1989-371462		19890626		
	US 1990 560248		19900727		
	US 1991-701661		19910520		

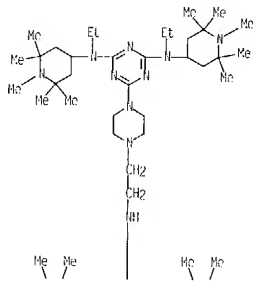
OS MARPAT 112:218135
AB Polyolefins prepared by low pressure polymerization using Mg halide-modified Ziegler-Natta catalysts are stabilized (i.a. against heat) by adding s-triazine derivs. of hindered piperidines to the polymerization. Polymerization of C3H6 using a MgCl2-TiCl4-AlEt3-PhSi(OEt)3 catalyst at 70° with gradual addition of 0.45 g of 2-(diethylamino)-4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidyl)amino]-1,3,5-triazine (I) in 50 mL hexane gave polypropylene with catalyst activity 45.5 kg/g, isotacticity 97.1%, intrinsic viscosity 1.9 dL/g, melt index 6.6 g/10 min, yellowness index 2.2, and embrittlement time at 135 and 150° >700 and 180 h, resp.; vs. 45.5, 97.0, 1.8, 15, 4.5, 0.75, and 0.5, resp., without addition of I.
IT **93676-07-4 121185-93-1 121206-01-7**
RL: USES (Uses)
(heat stabilizers for polyolefins, addition of, in Ziegler-Natta polymerization)
RN 93676-07-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N-[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N',N''-dibutyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



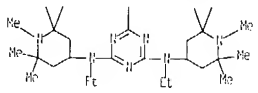
RN 121185-93-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[ethyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-diethyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



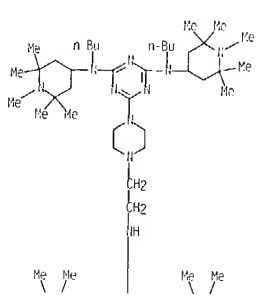
L5 ANSWER 31 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



RN 121206-01-7 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dibutyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



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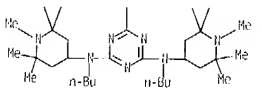
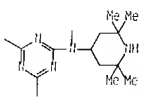


L5 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1990:37354 CAPLUS
DN 112:37354
TI Process for the methylation of triazine compounds containing 2,2,6,6-tetramethylpiperidine groups
IN Piccinelli, Piero; Orban, Ivan; Hofer, Martin; Borzatta, Valerio
PA Ciba-Geigy A.-G., Switz.; Ciba-Geigy S.p.A.
SO Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 319480	A2	19890607	EP 1988 810815	19881129
	EP 319480	A3	19900530		
	EP 319480	B1	19940126		
	R: BE, DE, FR, GB, IT, NL				
	BR 8806354	A	19890822	BR 1988-6354	19881202
	CA 1319690	A1	19930629	CA 1988-584926	19881202
	JP 01190678	A2	19890731	JP 1988-306794	19881203
	JP 2736792	B2	19980402		
	KR 130901	B1	19980423	KR 1988-16147	19881203
	US 5130429	A	19920714	US 1991-800871	19911127
PRAI	IT 1987-22888	A	1987120 4		
	US 1988-273783	B1	19881121		
	US 1990-586329	B1	19900918		

GI



I

AB Compds. bearing the I group are methylated by a mixture of CH2O and HCOOH in aromatic solvents. These methylated compds. are useful as heat and light stabilizers. Thus, adding 0.4 mol N-(2,2,6,6-tetramethyl-4-piperidyl)butylamine to 0.2 mol cyanuric chloride in 250 mL xylene at 10°, stirring for 1 h, adding 0.42 mol NaOH in 70 mL water, heating at 80° for 2 h, adding 0.1 mol 1,6-hexanediamine and 0.3 mol NaOH, refluxing with removal of water, adding 150 mL water, separating the aqueous phase, adding 0.43 mol HCOOH and 0.44 mol paraformaldehyde in 24.5 mL 2N aqueous NaOH solution, and heating gave N,N'-bis[2,4-bis[N-(1,2,2,6,6-pentamethyl-4-piperidyl)butylamino]-1,3,5-triazin-6-yl]-1,6-hexanediamine.

IT **121185-93-1P 121185-94-2P 121206-01-7P**
121206-02-8P
RL: PREP (Preparation)

L5 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(prepn. of, for heat and light stabilizers)
RN 121185-93-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''' [2-[4-[4,6-bis[ethyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl] 1-piperazinyl]ethyl]-N,N'-diethyl-N,N'-bis(1,2,2,6,6 pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

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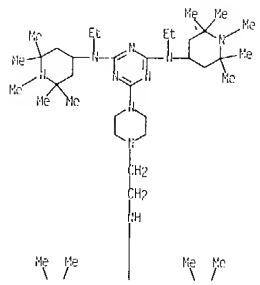
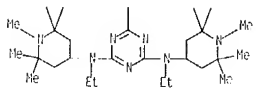


PAGE 2-A



RN 121186-94-2 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''' [2 [4-[4,6-bis[bis(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N,N',N'-tetrakis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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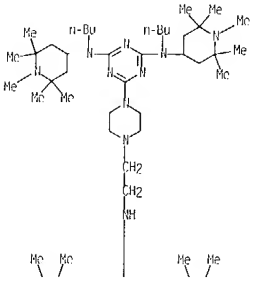

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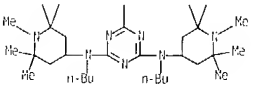

RN 121206-02-8 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2-[4-[4,6-bis[methyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dimethyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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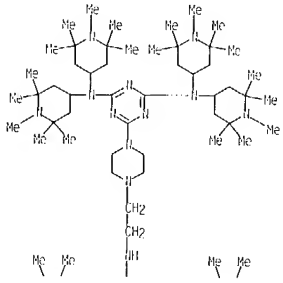

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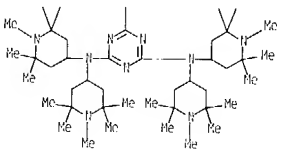
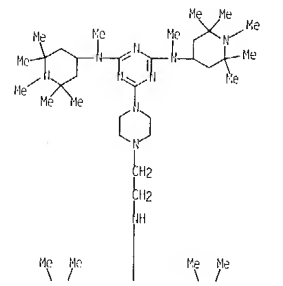


RN 121206-01-7 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2 [4 [4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dibutyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 32 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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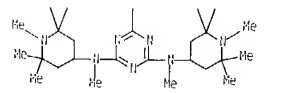


L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1989:408402 CAPLUS

DN 111:8402

TI Compounds containing piperidine, triazine, and piperazine rings as stabilizers for synthetic polymers

IN Cantatore, Giuseppe; Borzatta, Valerio; Masina, Franca

PA Ciba-Geigy A.-G., Switz.; Ciba Geigy S.p.A.

SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 299925	A1	19890118	EP 1988-810473	19880711
	EP 299925	B1	19921202		
	R: BE, DE, FR, GB, IT, NL				
	US 4883870	A	19891128	US 1988-217262	19880711
	CA 1306460	A1	19920818	CA 1988-571952	19880714
	JP 01034980	A2	19890206	JP 1988-176864	19880715
	JP 2704633	B2	19980126		
	KR 121755	B1	19971127	KR 1988-8961	19880716
	US 4992493	A	19910212	US 1989-403559	19890906
PRAI	IT 1987-21320	A	19870716		
	US 1988-217962	A3	19880711		

OS MARPAT 111:8402

GI For diagram(s), see printed CA Issue.

AB Compds. I (R1 = alkoxy, allylamino, substituted piperidylamino, etc.; R2 = H, alkyl, etc.; R3 = H, alkyl, substituted piperidyl, etc.; R4 = H, alkyl, cycloalkyl; n = 2-6) are prepared for use as heat and light stabilizers for organic materials such as polymers. Cyanuric chloride, [(2,2,6,6-tetramethyl-4-piperidyl)amino]methane, and N-(2-aminoethyl)piperazine were used to prepare I [R1 = N-methyl-N-(2,2,6,6-tetramethyl-4 piperidyl)amino; R2 = R4 = H; R3 = Me; n = 2] (II). Polypropene containing 0.1% II became brittle after 1360 h at 135° in air, vs. 250 without II.

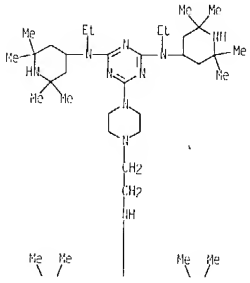
IT **121185-88-4P 121185-89-5P 121185-90-8P**
121185-91-9P 121185-92-0P 121185-93-1P
121185-94-2P 121206-01-7P 121206-02-8P
RL: PREP (Preparation)
(preparation and antioxidant activity in polymers)

RN 121185-88-4 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2-[4-[4,6-bis[methyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dimethyl-N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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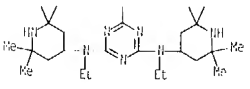

RN 121185-90-8 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dibutyl-N,N'-bis(2,2,6,6-tetramethyl-1-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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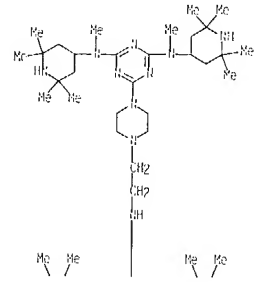
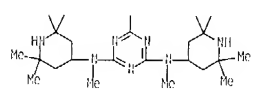


PAGE 2-A

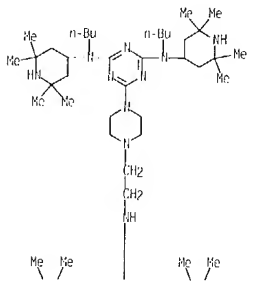


RN 121185-89-5 CAPLUS

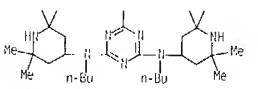
CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2-[4-[4,6-bis[ethyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-diethyl-N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



RN 121185-91-9 CAPLUS

CN 1,3,5-Triazine-2,4,6-triamine, N'''-[2-[4-[4,6-bis[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N,N',N'-tetrakis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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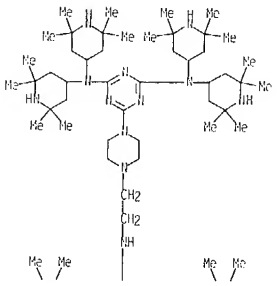
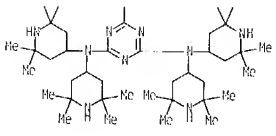


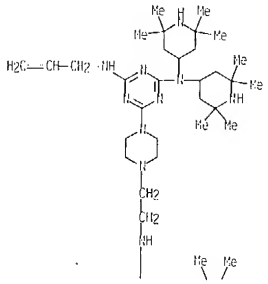
PAGE 2-A



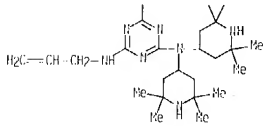
RN 121185-92-0 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4-[bis(2,2,6,6-tetramethyl-4-piperidinyl)amino]-6-(2-propenylamino)-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N''-2-propenyl-N,N-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



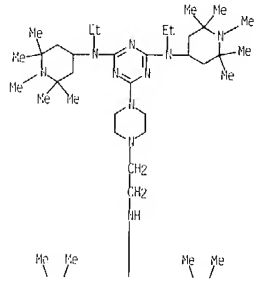
PAGE 2-A



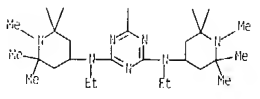
RN 121185-93-1 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[ethyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-diethyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1 A



PAGE 2-A



RN 121185-94-2 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[bis(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N,N',N'-tetrakis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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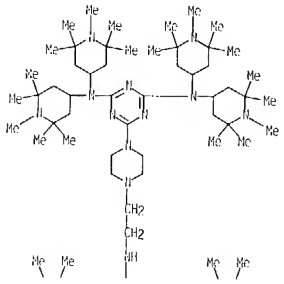
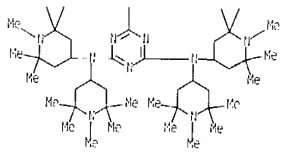


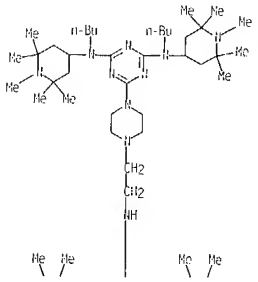
PAGE 2-A



RN 121706-01-7 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[butyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dibutyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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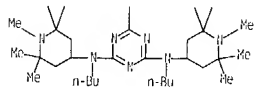

RN 121206-02-8 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N''-[2-[4-[4,6-bis[methyl(1,2,2,6,6-pentamethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N'-dimethyl-N,N'-bis(1,2,2,6,6-pentamethyl-4-piperidinyl) (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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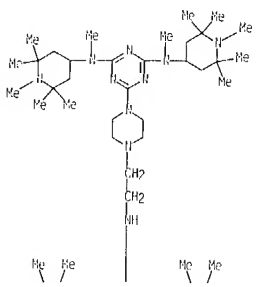

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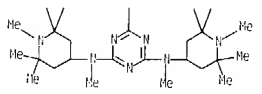


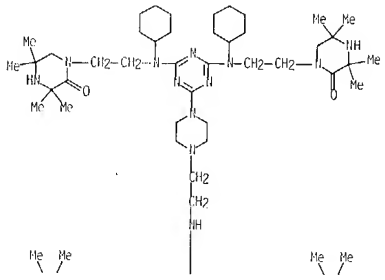
L5 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:632134 CAPLUS
DN 109:232134
TI Antioxidant-light stabilizer compositions for synthetic resins
IN Lai, John T.; Son, Pyong N.
PA Goodrich, B. F., Co., USA
SO U.S., 23 pp. Cont.-in-part of U.S. 4,547,538.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4722806	A	19880202	US 1985-721270	19850409
	US 4480092	A	19841030	US 1982-350536	19820219
	US 4547538	A	19851015	US 1984-661901	19841026
PRAI	US 1982-350536		19820202		
	US 1984-661901		19820219		

AB (2-Oxo-1-piperazinyl)triazines (PIP-1), which can be prepared from branched-chain polyalkylenepolyamines having a hindered primary amine group by selective reductive alkylation with ketones, ketoform cyclization, and reaction with triazines, are useful UV stabilizers, when used in combination with particular hindered phenol antioxidants in resins, providing better resistance to UV light and oxidation. Thus, H2NCMe2CH2NH(CH2)2NH2 was reduced and alkylated with a Pt catalyst in the presence of H and 2-butanone to prepare H2NCMe2CH2NH(CH2)2NHCHMeEt, which was then mixed with acetone and CHCl3 in the presence of 18-crown-6 polyether phase-transfer catalyst with added NaOH solution to obtain 1-[2-(sec-butylamino)ethyl]-3,3,5,5-tetramethyl-2-piperazinone (I). Reaction of I with cyanuric chloride gave a PIP-1, i.e., 2,4-dichloro-6-[(1-methylpropyl)[2-(3,3,5,5-tetramethyl-2-oxo-1-piperazinyl)ethyl]amino]-1,3,5-triazine.
IT **96204-42-1**
RL: USES (Uses)
(UV stabilizer, for synthetic resins, manufacture of)
RN 96204-42-1 CAPLUS
CN Piperazinone, 1,1'-[[6-[4-[2-[[4,6-bis[cyclohexyl[2-(3,3,5,5-tetramethyl-2-oxo-1-piperazinyl)ethyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazine-2,4-diyl]bis[(cyclohexylimino)-2,1-ethanediyl]]bis[3,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)

L5 ANSWER 34 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



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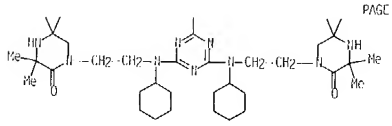

L5 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1988:455915 CAPLUS
DN 109:55915
TI Triazine derivatives of piperidinylamidines
IN Cantatore, Giuseppe; Borzatta, Valerio
PA Ciba-Geigy A.-G., Switz.; Ciba-Geigy S.p.A.
SO Eur. Pat. Appl., 29 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 250363	A2	19871223	EP 1987-810333	19870610
	EP 250363	A3	19890726		
	EP 250363	B1	19901128		
	R: DE, FR, GB, IT				
	US 4843159	A	19890627	US 1987-59650	19870608
	CA 1283908	A1	19910507	CA 1987-539576	19870612
	JP 63002989	A2	19880107	JP 1987-150065	19870616
	JP 08009612	B4	19960131		
PRAI	IT 1986-20798		19860616		

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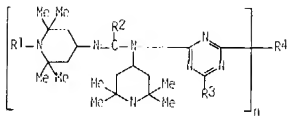

I

AB The piperidines I [R1, R2 = OH, Me; R3 = R5X or a 5-7 membered N-containing heterocyclic group; R5 = H, C1-18 alkyl, C3-18 alkenyl; X = O, S, NR5; n = 2 6; R4 = N-containing radical] are stabilizers against oxidation or thermal or light-induced degradation. Thus, 61.5 g N,N'-bis-(2,2,6,6-tetramethyl-4-piperidinyl)-formamidine was heated with 18.44 g cyanuric chloride in xylene at 50-55° for 2 h, 84.8 g Na2CO3 was added, heated at 70° for 3 h, and 4,4'-methylene biscyclohexylamine (10.52 g) was added and refluxed for 19 h to give N,N'-bis[2,4-bis [N'',N''-bis-(2,2,6,6-tetramethyl-4-piperidinyl)-formamidino]-1,3,5-triazine-6-yl]-4,4'-methylene-bis-cyclohexylamine (II). Polypropylene containing 2.5 phr II required 1900 h Weather-O-Meter exposure for a 50% loss of tenacity, vs. 150 without II.

IT **115430-74-5**

L5 ANSWER 35 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(stabilizers, for polymers, manuf. of)
RN 115430-74-5 CAPLUS
CN Methanimidamide, N,N''-[[6-[4-[2-[[4,6-bis[(2,2,6,6-tetramethyl-4-piperidinyl)[[(2,2,6,6-tetramethyl-4-piperidinyl)amino]ethyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazine-2,4-diyl]bis[N,N'-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

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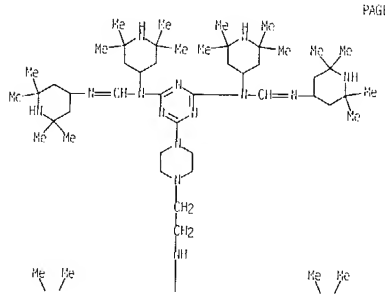

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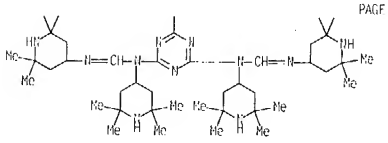

L5 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1986:130930 CAPLUS
DN 104:130930
TI Alkylated polyalkylenepolyamines and oxopiperazinyltriazines as uv stabilizers
IN Lai, John T.; Son, Pyong N.
PA Goodrich, B. F., Co., USA
SO U.S., 20 pp. Cont.-in-part of U.S. 4,480,092.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4517538	A	19851015	US 1984-664901	19841026
	US 4480092	A	19841030	US 1982 350536	19820219
	EP 101735	A1	19840307	EP 1983-902629	19830124
	EP 101735	B1	19861029		
	R: BE, CH, DE, FR, GB, LI, NL, SE				
	CA 1195329	A1	19851015	CA 1983-421028	19830207
	US 4722806	A	19880202	US 1985 721770	19850409
	US 4639479	A	19870127	US 1985-777999	19850920
	AU 8815060	A1	19881027	AU 1988-15060	19880121
	AU 612357	B2	19910711		
	US 5189173	A	19930223	US 1989-318047	19890302
	US 5270471	A	19931214	US 1992-966933	19921027
PRAI	US 1982-350536		19820219		
	US 1981-664901		19820219		
	US 1985-786765		19851011		
	US 1987-103779		19871002		
	US 1987-103799		19871002		
	US 1989-318047		19890302		

AB Piperazinyl-triazines and oligomers, prepared from polyamines, ketones, and triazines, are light stabilizers. Thus, 2,4-bis(1-piperidinyl)-6-[1-methylpropyl[2-(3,3,5,5-tetramethyl-2-oxo-1-piperazinyl)ethyl]amino]-1,3,5-triazine was prepared by condensingf N-(2-amino-2-methylpropyl)-1,2-ethanediamine with 2-butanone, cyclization with acetone, reaction with cyanuric chloride, and condensation with piperidine.

IT **96204-42-1**
RL: USES (Uses)
(light stabilizer)
RN 96204-42-1 CAPLUS
CN Piperazinone, 1,1'-[[6-[4-[2-[[4,6-bis[cyclohexyl[2-(3,3,5,5-tetramethyl-2-oxo-1-piperazinyl)ethyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazine-2,4-diyl]bis[(cyclohexylimino)-2,1-ethanediyl]]bis[3,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)

L5 ANSWER 36 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

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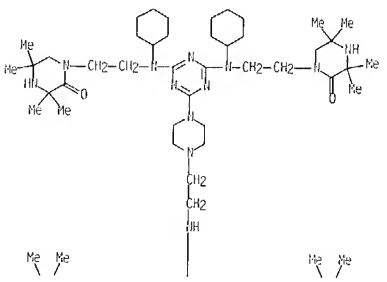

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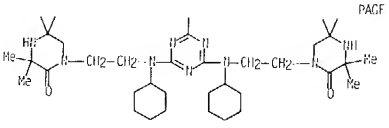


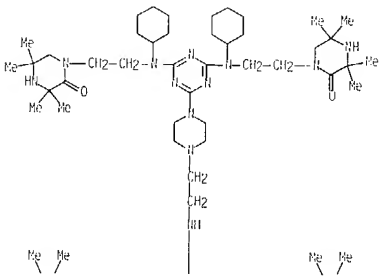
L5 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:186021 CAPLUS
DN 102:186021
TI Alkylated polyalkylenepolyamines, substituted oxopiperazinyl triazines and UV light-stabilized compositions
IN Lai, John Ta Yuan; Son, Pyong Nae
PA Goodrich, B. F., Co., USA
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 5

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8302913	A1	19830901	WO 1983-US106	19830124
	W: AU, JP				
	RW: BE, CH, DE, FR, GB, NL, SE				
	US 4480092	A	19841030	US 1982-350536	19820219
	AU 8313330	A1	19830908	AU 1983-13330	19830124
	AU 573170	B2	19880602		
	JP 59500215	T2	19840216	JP 1983-500878	19830124
	JP 05063475	B4	19930910		
	EP 101735	A1	19840307	EP 1983-902629	19830124
	EP 101735	B1	19861029		
	R: BE, CH, DE, FR, GB, LI, NL, SE				
	CA 1195329	A1	19851015	CA 1983-421078	19830207
	AU 8815060	A1	19881027	AU 1988-15060	19880421
	AU 612357	B2	19910711		
PRAI	US 1982-350536		19820219		
	WO 1983-US106		19830124		

AB The title products are prepared by reductively alkylating the terminal NH2 groups of polyalkylenepolyamines, cyclizing with ketones to form piperazinone rings, and preparing triazine derivs. from these products. Thus, reductive alkylation of Me2C(NH2)CH2NHCH2CH2NH2 [96204-45-4] with 2-butanone [78-93-3] over 10% Pt/C at 80°/800 psi gave 69.5% Me2C(NH2)CH2NHCH2CH2NHBu-sec (I) [91377-79-6]. Over 5 h 224 g 50% NaOH was added to a cooled mixture of 1 131.1, acetone [67-64-1] 101.6, CHCl3 [67-66-3] 100.2, and 18-crown-6 catalyst 7.9 g in 200 mL CH2Cl2, the mixture was left overnight at -4°, warmed gradually to 5°, and left 5 h at 5° to give 71.5 g 1-[2-(sec-butylamino)ethyl]-3,3,5,5-tetramethyl-2-piperazinone (II) [91377-76-3]. Condensing 63.9 g II with 46.1 g cyanuric chloride [108-77-0] in aqueous acetone at -7° to +9° gave 77.7 g II dichlorotriazine derivative [96162-83-3], which was converted at 150° in PhMe to a II dipiperidinotriazine derivative [96204-46-6]. Polypropylene [9003-07-0] containing 0.1 phr of such a compound required 600 h Weather-O-Meter exposure for a 50% loss of tensile strength before, and 430 h after, extraction with water.
IT **96204-42-1**

L5 ANSWER 37 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(light stabilizers, for polymers)
RN 96204-42-1 CAPLUS
CN Piperazinone, 1,1'-[[6-[4-[2-[[4,6-bis[cyclohexyl[2-(3,3,5,5-tetramethyl-2-oxo-1-piperazinyl)ethyl]amino]-1,3,5-triazin-2-yl]amino]ethyl]-1-piperazinyl]-1,3,5-triazine-2,4-diyl]bis[(cyclohexylimino)-2,1-ethanediyl]]bis[3,3,5,5-tetramethyl- (9CI) (CA INDEX NAME)

PAGE 1-A



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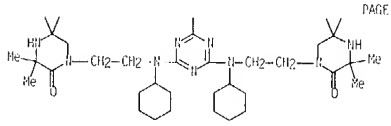
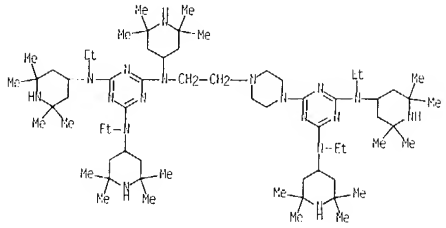


L5 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1985:7684 CAPLUS
DN 102:7684
TI Piperidinyl-triazine compounds, for use as stabilizers for synthetic polymers
IN Cantatore, Giuseppe
PA Ciba-Geigy S.p.A., Italy
SO Eur. Pat. Appl., 30 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

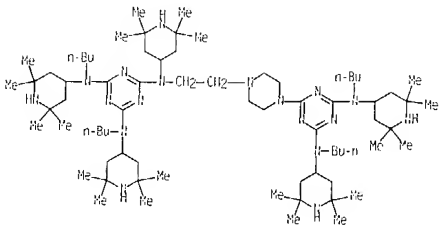
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 117229	A1	19840829	EP 1984-810055	19840130
	R: DE, FR, GB, IT				
	JP 59176278	A2	19841005	JP 1984-19311	19840203
PRAI	IT 1983-19430		19830204		

AB Compds. or oligomers containing s-triazine, piperazine, and hindered piperidine rings are heat and light stabilizers and antioxidants for polymers. Thus, heating 465 g triacetonamine [826-36-8] and 387 g 1-piperazineethanamine [140-31-8] with 3 g 5% Pt/C catalyst in 200 mL iso-PrOH at 80-90°/40 bar H gave 1-[2-(2,2,6,6-tetramethyl-4-piperidinyl)amino]ethyl]piperazine (I) [93676-05-2]. Refluxing 100 mL xylene containing 1 13.4, 2-chloro-4,6-bis[(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazine (II) [52185-43-0] 42.4, and NaOH 6 g for 20 h gave a 2:1 II-I adduct (III). Exposing polypropylene [9003-07-0] containing III 0.2, pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] 0.1, and Ca stearate 0.1 phr in a Weather-O-Meter at 63° required 1330 h for a 50% loss of tensile strength, compared with 220 without III.
IT **93676-06-3 93676-07-4 93676-08-5**
93676-10-9
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(heat and light stabilizers, for polymers)
RN 93676-06-3 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N-[2-[4-[4,6-bis[ethyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N',N''-diethyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

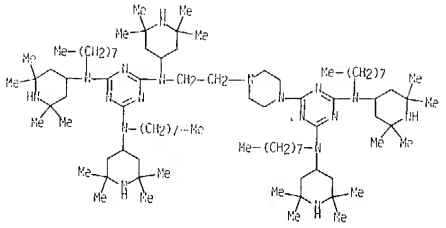


RN 93676-07-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N-[2-[4-[4,6-bis[butyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N',N''-dibutyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)



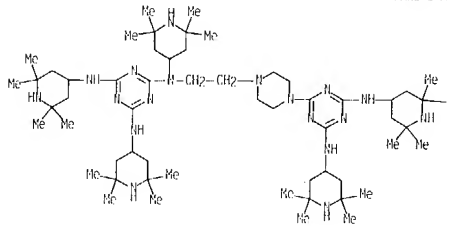
RN 93676-08-5 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N-[2-[4-[4,6-bis[octyl(2,2,6,6-tetramethyl-4-piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N',N''-dioctyl-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



RN 93676-10-9 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N-[2 [4 [4,6-bis[(2,2,6,6-tetramethyl-4 piperidinyl)amino]-1,3,5-triazin-2-yl]-1-piperazinyl]ethyl]-N,N',N''-tris(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 38 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-B

—Me

L5 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1982:583468 CAPLUS
DN 97:183468
TI Poly-bis-triazinylamines for stabilizing synthetic polymers
IN Wiezer, Hartmut; Pfahler, Gerhard
PA Hoechst A.-G., Fed. Rep. Ger.
SO Eur. Pat. Appl., 44 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 53775	A2	19820616	EP 1981-109985	19811128
	EP 53775	A3	19821006		
	EP 53775	B1	19860507		
	R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
	DE 3045839	A1	19820708	DE 1980-3045839	19801205
	AT 19630	E	19860515	AT 1981-109985	19811128
	AU 8178278	A1	19820610	AU 1981-78278	19811204
	AU 554424	B2	19860821		
	JP 57121034	A2	19820728	JP 1981 194622	19811204
	JP 04006/31	B4	19920206		
	BR 8107905	A	19820914	BR 1981 7905	19811204
	ZA 8108425	A	19821124	ZA 1981-8425	19811204
	CA 1161865	A1	19840403	CA 1981-391564	19811204
PRAI	DE 1980-3045839		19801205		
	EP 1981-109985		19811128		

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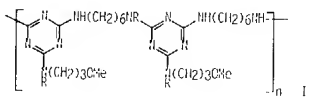


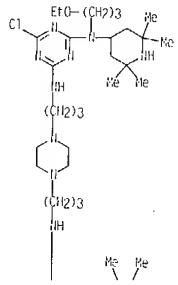
AB Polymers (.apprx.40) containing triazine and piperidine rings, such as polymer I (R = 2,2,6,6-tetramethyl-4-piperidyl) (II) [83420-03-5], are prepared. The polymers are useful as migration-resistant light stabilizers for synthetic polymers such as polyolefins. Thus, cyanuric chloride [108-77-0] 0.2, N-(3-methoxypropyl)-N-(2,2,6,6-tetramethyl-4-piperidyl)amine [78014-22-9] 0.2, and N-(2,2,6,6-tetramethyl-4-piperidyl)-1,6-hexanediamine [72215-37-5] 0.1 mol gave a monomer [83420-02-4] which was copolycd. with H2N(CH2)6NH2 to prepare the polymer II (mol. weight 3300). II was used (0.1%) as a light stabilizer in polypropylene [9003-07-0] containing 0.2% Ca stearate and 0.1% antioxidant. The polypropylene retained >50% of its initial break elongation after 1400 h in UV light, compared with 1% for polypropylene containing no light stabilizer.

L5 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
IT 83420-21-7
RL: PEP (Physical, engineering or chemical process); PROC (Process)
(light stabilizers, for polymers)
RN 83420-21-7 CAPLUS
CN 1,3,5-Triazine-2,4-diamine, N,N''-(1,4-piperazinediyldi-3,1-propanediyl)bis[6-chloro-N'-(3-ethoxypropyl)-N'-(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with N-(2,2,6,6-tetramethyl-4 piperidinyl)-1,2-ethanediamine (9CI) (CA INDEX NAME)

CM 1

CRN 83420-20-6
CMF C44 H80 C12 N14 O2

PAGE 1-A



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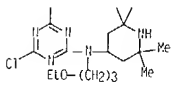
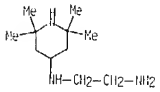


CM 2

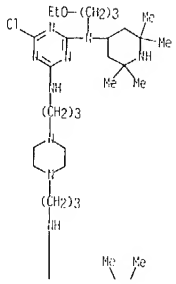
CRN 70804-02-3
CMF C11 H25 N3

L5 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)



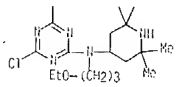
IT **83420-20-6P**
RL: PREP (Preparation)
(preparation and copolymn. with diamines)
RN 83420-20-6 CAPLUS
CN 1,3,5-Triazine-2,4-diamine, N,N''-(1,4-piperazinediyldi-3,1-propanediyl)bis[6-chloro-N''-(3-ethoxypropyl)-N''-(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



L5 ANSWER 39 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 2-A



L5 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1981:550709 CAPLUS
DN 95:150709
TI Triazine stabilizers
IN Wiezer, Hartmut; Pfahler, Gerhard
PA Hoechst A.-G., Fed. Rep. Ger.
SO Ger. Offen., 33 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2944729	A1	19810514	DE 1979-2944729	19791106
	EP 29522	A1	19810603	EP 1980-106702	19801031
	EP 29522	B1	19840620		
	R: AT, BE, CH, DE, FR, GB, IT, NL, SE				
	AT 8048	E	19840715	AT 1980-106702	19801031
	US 4433145	A	19840221	US 1980-203236	19801103
	BR 8007134	A	19810512	BR 1980-7134	19801104
	JP 56075188	A2	19810622	JP 1980-154755	19801105
	JP 01009995	B4	19890221		
	AU 8064107	A1	19810820	AU 1980-64107	19801105
	AU 535183	B2	19840308		
	ZA 8006816	A	19811125	ZA 1980-6816	19801105
	CA 1140926	A1	19830208	CA 1980-364001	19801105
PRAI	DE 1979-2944729		19791106		
	EP 1980-106702		19801031		

GI

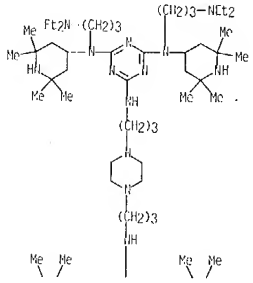
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The triazine derivs. I [y = 0, 1; x, m = 1-3; n = 2-3; Z = divalent group e.g. alkylene, (CH2)2NMe(CH2)3, (substituted) phenylene; R = (substituted) piperidylamino group; R1 = CH, alkoxy, dialkylamino] were prepared for use as light stabilizers for polymers (test data tabulated). Thus, 1 mol. N-(2,2,6,6-tetramethyl-4-piperidyl)-3-(diethylamino)propylamine reacted with 0.5 mol. cyanuric chloride in Me2CO, and the product (0.01 mol.) reacted with 0.02 mol (H2NCH2)2 and powdered NaOH to give II.

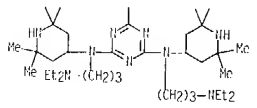
IT **79112-48-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 79112-48-4 CAPLUS
CN 1,3,5-Triazine-2,4,6-triamine, N,N''',-(1,4-piperazinediyldi-3,1-propanediyl)bis[N',N''-bis[3-(diethylamino)propyl]-N',N''-bis(2,2,6,6-tetramethyl-4-piperidinyl)- (9CI) (CA INDEX NAME)

L5 ANSWER 40 OF 40 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

PAGE 1-A



PAGE 2-A



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                "EBENEZER WARREN J"/AU OR "EBENEZER WARREN JAMES"/AU)
L7          119 SEA FILE=CAPLUS ABB=ON  PLU=ON  ("RUSS WERNER"/AU OR "RUSS
                WERNER H"/AU OR "RUSS WERNER HUBERT"/AU OR "RUSS WERNER HUBERT
                DR"/AU)
L8          136 SEA FILE=CAPLUS ABB=ON  PLU=ON  L6 OR L7
L9          102 SEA FILE=CAPLUS ABB=ON  PLU=ON  L8 AND AZO
L10          99 SEA FILE=CAPLUS ABB=ON  PLU=ON  L9 AND REACTIVE
L11           8 SEA FILE=CAPLUS ABB=ON  PLU=ON  L10 AND PIPERAZIN?


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L11 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:413024 CAPLUS
DN 140:408229
TI Mixtures of **reactive azo** dyes, their production and their use in dyeing of material containing hydroxy- and/or carboxamido groups
IN **Ebenezer, Warren James; Russ, Werner**
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K. G., Germany
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004041941	A1	20040521	WO 2003-EP12271	20031104
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	GB 2002-26151	A	20021108		

OS MARPAT 140:408229
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

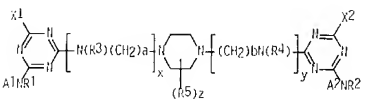
AB Disclosed are **reactive azo** dye mixts. comprising one or more of I (Ar1= sulfoaryl; M = H, alkali metal; X1 = labile atom or group) and one or more of II (Ar2 = sulfoaryl; M = H, alkali metal; L = mono- or divalent radical; X2 = labile atom or group; a = 1 or 2). The mixts. provide strong and economic shades on fibrous materials. In an example, 2-aminoethylpiperazine and ethylenediamine were condensed with a dichlorotriazinyl dye to give a red 1:1 mixture of dyes of type I and type II.
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L11 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:36726 CAPLUS
DN 140:95572
TI **Reactive azo** dyes, their production and their use
IN **Ebenezer, Warren James; Russ, Werner**
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO Eur. Pat. Appl., 48 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1380621	A1	20040114	EP 2003-15256	20030707
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004107517	A1	20040610	US 2003-611438	20030701
	ZA 2003005261	A	20040210	ZA 2003-5261	20030708
	BR 2003002363	A	20040824	BR 2003-2363	20030708
	JP 2004043809	A2	20040212	JP 2003-195297	20030710
	CN 1477159	A	20040225	CN 2003-146641	20030710
PRAI	GB 2002-15982	A	20020710		

OS MARPAT 140:95572
GI



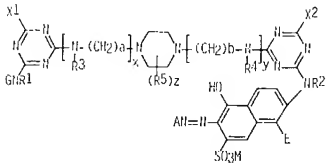
I

AB The invention discloses **reactive azo** dyes (I; A1, A2 = aromatic sulfo-containing **azo** moiety; R1, R2, R3, R4, R5 = H, optionally substituted alkyl; X1, X2 = fiber-**reactive** atom or group; x, y = 0, 1 whereby at least one of x and y is 1; a, b = 2-5 and when each of x and y is 1, a = b; z = 0, 1, 2, 3, 4), processes for their preparation, and their use for dyeing and printing hydroxy- and/or carboxamido-containing fiber materials. I provide strong, bright, and economic shades on textiles. In an example, 1-(2-aminoethyl) **piperazine** was treated in succession with 2 different monoazo dyes each containing a dichlorotriazine group to give a disazo bis(chlorotriazine) **reactive** dye (λ_{max} 491 nm).
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:888829 CAPLUS
DN 137:385992
TI **Reactive** scarlet **azo** dyes, their production and their use
IN **Ebenezer, Warren James**
PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany
SO PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002092697	A1	20021121	WO 2002-EP4908	20020504
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1397865	A1	20040211	EP 2002-753041	20020504
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2002009356	A	20040608	BR 2002-9356	20020504
	US 2004138435	A1	20040715	US 2003-477074	20031106
PRAI	GB 2001-11573	A	20010511		
	WO 2002-EP4908	W	20020504		

OS MARPAT 137:385992
GI



I

AB The invention refers to **piperazine**-based halotriazine **reactive** disazo dyes (I; A = optionally substituted 2-sulfophenyl or 1-sulfo-2-naphthyl; E = H, SO3M; G = arylazohydroxysulfonaphthyl; M =

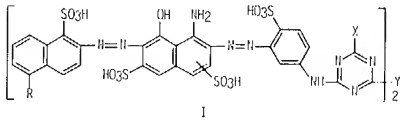
L11 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
H, ammonium, alkali, alk. earth metal/2; R1-R5 = H, optionally substituted alkyl; X1, X2 = halogen; a, b = 2-5; x, y = 0, 1; z = 0-4). Scarlet I are prepd. with 2 different chromophores and have excellent fastness properties. In an example, a dye was prepd. starting with 1-(2-aminoethyl)**piperazine** and condensing with 2 different dichlorotriazinyl **azo** dyes.
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
(hetero)arylene, ≥2-such groups linked together, (un)substituted (un)interrupted (by N, O, S, or such a cyclic group) C1-15 alkylene or C2-15 alkenylene] or are salts of such I. Thus, H acid Na salt was coupled with diazotized 2,4-H2N(AcNH)C6H3SO3H and the product was coupled with diazotized 2,1,5 H2NC10H5(SO3H)2 to give a disazo compd., which was deacetylated and condensed with cyanuric chloride, and the resulting dichlorotriazine deriv. was condensed 2:1 with EtNHCH2CH2NHMe to give a I. λmax 616 nm, which dyed cotton in a fast greenish navy shade.
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:11119 CAPLUS
DN 132:167667
TI **Reactive** tetrakisazo dyes, their preparation and use
IN **Ebenezer, Warren James**; Mynett, Donna Maria
PA BASF A.-G., Germany
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000008104	A1	20000217	WO 1999-GB2447	19990726
	W: BR, CN, ID, JP, KR, TR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	BR 9912628	A	20010502	BR 1999-12628	19990726
	EP 1100847	A1	20010523	EP 1999-934987	19990726
	EP 1100847	B1	20030416		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TR 200100320	T2	20010621	TR 2001-200100320	19990726
	JP 2002522587	T2	20020723	JP 2000-563731	19990726
	AT 237661	E	20030515	AT 1999-934987	19990726
	PT 1100847	T	20030731	PT 1999-934987	19990726
	ES 2197658	T3	20040101	ES 1999-934987	19990726
	US 6359121	B1	20020319	US 2001-744254	20010131
PRAI	GB 1998-16780	A	19980731		
	WO 1999-GB2447	W	19990726		

OS MARPAT 132:167667
GI



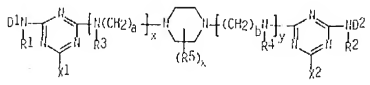
I

AB The dyes have the formula I [each R = H, SO3H; each X = F, Cl, (un)substituted pyridinium; Y = NR1ZNR2 (with 1 exception), NR3ZS; R1 R3 = C1-4 alkyl, C1-4 aminoalkyl, C1-4 hydroxyalkyl, or R1R2 completes a heterocycle; Z = (un)substituted C5-12 cycloalkylene or C5-12

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1999:96317 CAPLUS
DN 130:154986
TI **Reactive** dyes containing a **piperazine** residue, their preparation and use
IN **Ebenezer, Warren James**; Mynett, Donna Maria
PA BASF A.-G., Germany
SO PCT Int. Appl., 59 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9905224	A1	19990204	WO 1998-GB2162	19980720
	W: BR, CN, ID, JP, KR, TR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 998531	A1	20000510	EP 1998-935169	19980720
	EP 998531	B1	20020306		
	R: CH, DE, ES, GB, IT, LI, PT				
	BR 9811035	A	20000801	BR 1998-11035	19980720
	IR 200000277	T2	20000921	IR 2000-200000277	19980720
	JP 2001510875	T2	20010807	JP 2000-504205	19980720
	PT 998531	T	20020830	PT 1998-935169	19980720
	ES 2173604	T3	20021016	ES 1998-935169	19980720
	CN 1102947	B	20030312	CN 1998-807524	19980720
	TW 568940	B	20040101	TW 1998-87112140	19980724
	US 6248871	B1	20010619	US 2000-462500	20000124
PRAI	GB 1997-15830	A	19970725		
	WO 1998-GB2162	W	19980720		

OS MARPAT 130:154986
GI



I

AB The dyes have the formula I [D1, D2 = **azo** chromophoric group; R1-R4 = H, (un)substituted alkyl; each R5 = alkyl; X1, X2 = labile atom or group; a, b = 1-5; x, y = 0, 1; (x + y) ≥ 1; z = 0-4]. They can be prepared by reacting a **piperazine** derivative with resp. equimolar quantities of 2 triazine ring-containing **reactive azo** dyes or with 2 mol of a single **reactive azo** dye. For coloration of a substrate the dyes can be applied at pH >7 by, for example, exhaust dyeing, padding, or printing. Thus, an aqueous solution of 0.021 mol 7-[[4-(dichlorotriazinylamino)-2-ureidophenyl]**azo**

L11 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)
]-1,3,6-naphthalenetrisulfonic acid was added over 15 min to an aq. soln. of 0.01 mol 1-(2-aminoethyl)**piperazine** at room temp. and kept overnight to give a I with λmax 426 nm.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN (Continued)

L11 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:6072 CAPLUS
DN 126:33021
TI **Reactive azo** dyes and dyeing therewith
IN Hutchings, Michael Gordon; Brennan, Colin Michael; Tallant, Neil Anthony; Shawcross, Andrew Paul; Patel, Prakash; **Ebenezer, Warren James**
PA Zeneca Limited, UK; Hutchings, Michael Gordon; Brennan, Colin Michael; Tallant, Neil Anthony; Shawcross, Andrew Paul; Patel, Prakash; Ebenezer, Warren James
SO PCT Int. Appl., 46 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9635012	A1	19961107	WO 1996-GB867	19960409
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
	AU 9652836	A1	19961121	AU 1996-52836	19960409
	EP 826084	A1	19980304	EP 1996-909274	19960409
	R: DE, GB, IT				
	JP 11504375	T2	19990420	JP 1996-533093	19960409
	EP 1013818	A2	20000628	EP 2000 104363	19960409
	EP 1013818	A3	20010110		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	TW 428013	B	20010401	TW 1996-85104251	19960410
	ZA 9602986	A	19961106	ZA 1996-2986	19960415
	US 5976197	A	19991102	US 1998-952170	19980130
PRAI	GB 1995-9295	A	19950506		
	GB 1995-10687	A	19950525		
	EP 1996-909274	A3	19960409		
	WO 1996-GB867	W	19960109		

OS MARPAT 126:33021
AB **Reactive azo** dyes and their salts are used to color substrates. The process comprises applying to the substrate the water-soluble dye having ≥2 electrophilic groups and a nucleophilic agent having mol. weight <600 and at ≥1 group selected from aliphatic primary amino groups and secondary amino groups. The nucleophilic agent improves fixation and reduces the need for rinsing. In an example, orange 4-(β-sulfatoethylsulfonyl)aniline→7,7'-ureylenebis(4-hydroxy-2-naphthalenesulfonic acid) (λmax 482 nm) was prepared and applied to cotton using tris(2-aminoethyl)amine as the nucleophilic agent.

L11 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:931261 CAPLUS
DN 123:316756
TI Aminated cellulosic synthetic fibers and method for preparation of dyed textiles from rayon and cellulose derivatives and amines.
IN Schrell, Andreas; **Russ, Werner Hubert**; Huber, Bernd
PA Hoechst A.-G., Germany
SO Eur. Pat. Appl., 15 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 665311	A1	19950802	EP 1995-100299	19950111
	EP 665311	B1	19981209		
	R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, SE				
	DE 4402711	A1	19950803	DE 1994-4402711	19940129
	DE 4422758	A1	19960104	DE 1994-4422758	19940629
	AT 174388	E	19981215	AT 1995-100299	19950111
	ES 2126794	T3	19990401	ES 1995-100299	19950111
	FI 9500343	A	19950730	FI 1995-343	19950126
	US 5684141	A	19971104	US 1995-378600	19950126
	CA 2141267	AA	19950730	CA 1995-2141267	19950127
	CN 1109925	A	19951011	CN 1995-101673	19950127
	JP 07300719	A2	19951114	JP 1995-11863	19950127
	US 5865858	A	19990202	US 1997-963683	19971031
PRAI	DE 1994-4402711	A	19940129		
	DE 1994-4422758	A	19940629		
	US 1995-378600	A3	19950126		

AB The title fibers comprise an amino-substituted cellulose derivative polymer from an olefinic unsatd. amine and cellulose or cellulose components or the the amine-substituted cellulose reaction product from cellulose or cellulose components with N-heterocycloalkyl ester derivative or an ω-aminohydroxyalkyl ester derivative, the amino-, hydroxy-, and ester group can be on the primary, secondary or tertiary C-atom of the alkyl group. These fibers are dyed with **reactive** dyes giving deep shades with good fastness. N-(2-sulfatoethyl)**piperazine** -modified hydroxyethyl cellulose and spinning viscose were mixed, spun into fibers, and dyed with a red **azo reactive** dye gave a dyeing with a deep red shade and good color depth and good fastness properties.

L11 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:538231 CAPLUS
DN 122:268059
TI Process for printing and dyeing of textiles with anionic dyes and printed and dyed textiles from
IN Von der Eltz, Andreas; Schrell, Andreas; Russ, Werner Hubert
PA Hoechst A.-G., Germany
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 613977	A1	19940907	EP 1994-102779	19940224
	EP 613977	B1	20010613		
	R: AT, CH, DE, FR, GB, IT, LI				
	DE 4306432	A1	19940908	DE 1993-4306432	19930302
	JP 06299476	A2	19941025	JP 1994-30236	19940228
	US 5512061	A	19960430	US 1994-204773	19940302
PRAI	DE 1993-4306432	A	19930302		

OS MARPAT 122:268059
AB Title process, especially for cotton, comprises printing the textile with an aqueous solution containing an alkali fixing agent and a compound containing a primary, secondary, or tertiary amine or quaternary ammonium group which can be a component of a heterocycle, fixing to modify the textile surface, and dyeing, e.g. **reactive**, the modified textile ≥1 time using an exhaust or pad process. The process with a one color pattern does not give effluents containing salt, the neutral dye solution can be optionally concentrated, and no printing dye is needed. A cotton textile was printed with a paste contg NaOH and (2-sulfatoethyl)**piperazine**, dried, steamed, rinsed, and dyed in a bath containing a **reactive azo**-anthraquinone dye and no electrolyte giving a blue-black shade.

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